

About p \LaTeX 2 ϵ

Ken Nakano & Japanese \TeX Development Community

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Attention:

This document provides a brief description of p \LaTeX 2 ϵ , the Japanese extended version of \LaTeX 2 ϵ . The original version of p \LaTeX 2 ϵ ('ASCII p \LaTeX 2 ϵ ') was developed by ASCII MEDIA WORKS¹ (formerly ASCII CORPORATION) during 1995 and 2006. The current version, which is now distributed in CTAN and \TeX Live, is a forked version called 'p \LaTeX 2 ϵ Community Edition.' It is now maintained by Japanese \TeX Development Community².

p \LaTeX is a Japanese \LaTeX format, which is adjusted/extended to be more suitable for writing Japanese documents. It requires p \TeX (\TeX engine with extensions for Japanese typesetting; it is designed for high-quality Japanese book publishing, and the 'p' stands for 'publishing'³), and the development of both p \TeX and p \LaTeX was done by ASCII Corporation.

In 2010, ASCII p \TeX was incorporated into the world-wide \TeX distribution ' \TeX Live.' Since then, p \TeX has been maintained/improved/changed along with \TeX Live sources. In recent versions of \TeX Live and W32 \TeX , the default engine of p \LaTeX changed from original p \TeX to ϵ -p \TeX (p \TeX with ϵ -p \TeX extension), and the original \LaTeX itself is also frequently updated. On the other hand, p \LaTeX remained unchanged since 2006, which resulted in some incompatibility and limitations.

To follow these upstream changes, we (Japanese \TeX Development Community) decided to fork ASCII p \LaTeX and distribute the 'community edition.' The development version is available from GitHub repository⁴. The forked community

¹<http://ascii.asciimw.jp/pb/ptex/>

²<https://texjp.org>

³There is another old implementation of Japanese \LaTeX , called j \LaTeX 2 ϵ (but not included in \TeX Live). Also, MiK \TeX has another program called 'platex,' but it has nothing to do with our Japanese p \LaTeX !

⁴<https://github.com/texjporg/platex>

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 pL^AT_EX 2_ε community edition. It is somewhat of a historical document now, since pL^AT_EX 2_ε came into existence in 1995 (although the English translation has been done by Japanese T_EX Development Community since 2017). The detail of source codes are described separately in pldoc-en.pdf.

1 Introduction to this document

This document briefly describes p \LaTeX 2 ϵ , but is not a manual of p \LaTeX 2 ϵ . For the basic functions of p \LaTeX 2 ϵ , see [1] (in Japanese). For extensions of some commands for vertical writing (which were first described in [2] in Japanese), see `plex.tdx` section in `pldoc-en.pdf`.

For Japanese typesetting, please refer to the documentation of p \TeX (or “Japanese \TeX ”; the preliminary version of p \TeX), [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 p \LaTeX 2 ϵ . Also describes the standard classes and packages.

Section 3 The compatibility note for users of the old version of p \LaTeX 2 ϵ or those of the original \LaTeX 2 ϵ .

Appendix A Describes DOCSTRIP Options for this document.

Appendix B Description of ‘`pldoc.tex`’ (counterpart for ‘`source2e.tex`’ in \LaTeX 2 ϵ).

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 p \LaTeX 2 ϵ

The structure of p \LaTeX 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 p \LaTeX , process “`platex.ltx`” with INI mode of ϵ -p \TeX .⁵ A handy command ‘`fmtutil-sys`’ (or ‘`fmtutil`’) for this purpose is available in \TeX Live. The following command generates `platex.fmt`.

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

⁵Formerly both p \TeX and ϵ -p \TeX can make the format file for p \LaTeX , however, it’s not true anymore because \LaTeX requires ϵ -p \TeX since 2017.

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

```

1 <{*plcore>

   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

   Load plcore.ltx.
5 \typeout{*****^~J%
6         *^~J%
7         * making pLATEX format^~J%
8         *^~J%
9         *****}
10 \makeatletter
11 \input plcore.ltx

```

Load font-related default settings, `pldefs.ltx`. If a file `pldefs.cfg` is found, then that file will be used instead.

```

12 \InputIfFileExists{pldefs.cfg}
13     {\typeout{*****^~J%
14             * Local config file pldefs.cfg used^~J%
15             *****}}%
16     {\input{pldefs.ltx}}

```

Display pL^AT_EX version on the terminal, so that it can be easily recognized during format creation.

```

17 \the\everyjob

   Load platex.cfg if it exists at runtime.
18 \everyjob\expandafter{%
19   \the\everyjob
20   \IfFileExists{platex.cfg}{%
21     \typeout{*****^~J%
22             * Loading platex.cfg.^~J%
23             *****}%
24     \input{platex.cfg}}{%
25 }

```

Dump to the format file.

```

26 \let\dump\orgdump
27 \let\orgdump\@undefined
28 \makeatother

```

```

29 \dump
30 %\endinput
31 </plcore>

```

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

- `plvers.dtx` defines the format version of p \LaTeX 2 ϵ .
- `plfonts.dtx` extends NFSS2 for Japanese font selection.
- `plcore.dtx` defines other modifications to \LaTeX 2 ϵ .

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 p \LaTeX 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 “2018/03/09”) and the format name (“p \LaTeX 2e”) of p \LaTeX 2 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. p \LaTeX 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 detail of (the original) NFSS2, please refer to `fntguide.tex` in \LaTeX 2 ϵ .

⁶ASCII p \LaTeX loaded `pldefs.ltx` inside `plcore.ltx`; however, p \LaTeX community edition newer than 2018 loads `pldefs.ltx` inside `platex.ltx`.

2.1.3 Output Routine and Floats

`plcore.dtx` modifies and extends some $\text{\LaTeX 2}_{\epsilon}$ commands for Japanese processing.

- 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 $\text{\LaTeX 2}_{\epsilon}$ are based on those in original $\text{\LaTeX 2}_{\epsilon}$, with some Japanese localization.

$\text{\LaTeX 2}_{\epsilon}$ 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`.

$\text{\LaTeX 2}_{\epsilon}$ packages:

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

- `ptrace.sty`
 $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ version of `tracefmt.sty`; the package `tracefmt.sty` overwrites $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ -style NFSS2 commands, so `ptrace.sty` provides redefinitions to recover $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ extensions. Stripped from `plfonts.dtx`.
- `pfltrace.sty`
 $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ version of `fltrace.sty` (introduced in $\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ 2014/05/01); stripped from `plcore.dtx`.
- `oldpfont.sty`
Provides $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X}$ 2.09 font commands; stripped from `p1209.dtx`.

The packages “`ascmac.sty`” and “`nidanfloat.sty`”, which had been included in previous versions of $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X}$, 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 $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ and older versions or original $\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$.

3.1 Compatibility with $\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$

$\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ is in most part upper compatible with $\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$, 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 $\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ and $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$.

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

3.2 Compatibility with $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X}$ 2.09

$\text{p}\text{L}\text{A}\text{T}\text{E}\text{X} 2_{\epsilon}$ has ‘ $\text{p}\text{L}\text{A}\text{T}\text{E}\text{X}$ 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’

pL^AT_EX provides ‘platexrelease’ package, which is based on ‘latexrelease’ package (introduced in L^AT_EX <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:

<i>Option</i>	<i>Function</i>
<code>plcore</code>	Generates a fragment of format sources
<code>pldoc</code>	Generates ‘ <code>pldoc.tex</code> ’ for typesetting pL ^A T _E X 2 _ε sources
<code>shprog</code>	Generates a shell script to process ‘ <code>pldoc.tex</code> ’
<code>plprog</code>	Generates a tiny perl program to check DOCSTRIP guards nesting
<code>Xins</code>	Generates a DOCSTRIP batch file ‘ <code>Xins.ins</code> ’ for generating the above shell/perl scripts

B Documentation of pL^AT_EX 2_ε sources

The contents of ‘`pldoc.tex`’ for typesetting pL^AT_EX 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 pL^AT_EX 2_ε sources is written in Japanese. If you need English version, first save

```
\newif\ifJAPANESE
```

as `platex.cfg`, and process `pldoc.tex` (pL^AT_EX 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`).

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


```

32 <*pldoc>
33 \begin{filecontents}{pldoc.dic}
34 西暦      せいれき
35 和暦      われき
36 \end{filecontents}

```

We use `jltxdoc` class; we also require `plext` package, since `plext.dtx` contains several examples of partial vertical writing.

```

37 \documentclass{jltxdoc}
38 \usepackage{plext}
39 \listfiles
40

```

Do not index some \TeX primitives, and some common plain \TeX commands.

```

41 \DoNotIndex{\def,\long,\edef,\xdef,\gdef,\let,\global}
42 \DoNotIndex{\if,\ifnum,\ifdim,\ifcat,\ifmmode,\ifvmode,\ifhmode,%
43             \iftrue,\iffalse,\ifvoid,\ifx,\ifeof,\ifcase,\else,\or,\fi}
44 \DoNotIndex{\box,\copy,\setbox,\unvbox,\unhbox,\hbox,%
45             \vbox,\vtop,\vcenter}
46 \DoNotIndex{\@empty,\immediate,\write}
47 \DoNotIndex{\egroup,\bgroup,\expandafter,\begingroup,\endgroup}
48 \DoNotIndex{\divide,\advance,\multiply,\count,\dimen}
49 \DoNotIndex{\relax,\space,\string}
50 \DoNotIndex{\csname,\endcsname,\@spaces,\openin,\openout,%
51             \closein,\closeout}
52 \DoNotIndex{\catcode,\endinput}
53 \DoNotIndex{\jobname,\message,\read,\the,\m@ne,\noexpand}
54 \DoNotIndex{\hsize,\vsize,\hskip,\vskip,\kern,\hfil,\hfill,\hss,\vss,\unskip}
55 \DoNotIndex{\m@ne,\z@,\z@skip,\@ne,\tw@,\p@,\@minus,\@plus}
56 \DoNotIndex{\dp,\wd,\ht,\setlength,\addtolength}
57 \DoNotIndex{\newcommand,\renewcommand}
58

```

Set up the Index and Change History to use `\part`.

```

59 \ifJAPANESE
60 \IndexPrologue{\part*{索引}}%
61             \markboth{索引}{索引}%
62             \addcontentsline{toc}{part}{索引}%
63 イタリアック体の数字は、その項目が説明されているページを示しています。
64 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。
65 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。}
66 \else
67 \IndexPrologue{\part*{Index}}%
68             \markboth{Index}{Index}%
69             \addcontentsline{toc}{part}{Index}%
70 The italic numbers denote the pages where the corresponding entry
71 is described, numbers underlined point to the definition,
72 all others indicate the places where it is used.}
73 \fi
74 %

```

```

75 \ifJAPANESE
76 \GlossaryPrologue{\part*{変更履歴}%
77     \markboth{変更履歴}{変更履歴}%
78     \addcontentsline{toc}{part}{変更履歴}}
79 \else
80 \GlossaryPrologue{\part*{Change History}%
81     \markboth{Change History}{Change History}%
82     \addcontentsline{toc}{part}{Change History}}
83 \fi
84

```

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

```

85 \makeatletter
86 \def\changes@#1#2#3{%
87     \let\protect\unexpandable@protect
88     \edef\@tempa{\noexpand\glossary{#2\space\currentfile\space#1\levelchar
89         \ifx\saved@macroname\@empty
90             \space\actualchar\generalname
91         \else
92             \expandafter\@gobble
93             \saved@macroname\actualchar
94             \string\verb\quotechar*%
95             \verbatimchar\saved@macroname
96             \verbatimchar
97         \fi
98         :\levelchar #3}}%
99     \@tempa\endgroup\@esphack}
100 \makeatother

```

Produce a Change Log and (2 column) Index.

```

101 \RecordChanges
102 \CodelineIndex
103 \EnableCrossrefs
104 \setcounter{IndexColumns}{2}
105 \settowidth\MacroIndent{\ttfamily\scriptsize 000\ }

```

Here starts the document body.

```

106 \begin{document}
107 \title{The \pLaTeXe\ Sources}
108 \author{Ken Nakano \& Japanese \TeX\ Development Community}
109
110 % Get the date and patch level from plvers.dtx
111 \makeatletter
112 \let\patchdate=\@empty
113 \begingroup
114 \def\ProvidesFile#1\pfmtversion#2#3\ppatch@level#4{%
115     \date{#2}\xdef\patchdate{#4}\endinput}
116 \input{plvers.dtx}
117 \endgroup

```

```

118
119 % Add the patch version if available.
120 \def\Xpatch{0}
121 \ifx\patchdate\Xpatch\else
122 % number is assumed
123 \ifnum\patchdate>0
124   \edef\@date{\@date\space Patch level\space\patchdate}
125 \else
126   \edef\@date{\@date\space Pre-Release\patchdate}
127 \fi\fi
128 \makeatother
129
130 \pagenumbering{roman}
131 \maketitle
132 \renewcommand\maketitle{}
133 \tableofcontents
134 \clearpage
135 \pagenumbering{arabic}
136
137 \DocInclude{plvers} % pLaTeX version
138
139 \DocInclude{plfonts} % NFSS2 commands
140
141 \DocInclude{plcore} % kernel commands
142
143 \DocInclude{plext} % external commands
144
145 \DocInclude{pl209} % 2.09 compatibility mode commands
146
147 \DocInclude{kinsoku} % kinsoku parameter
148
149 \DocInclude{jclasses} % Standard class
150
151 \DocInclude{jltxdoc} % dtx documents class
152
153 \StopEventually{\end{document}}
154
155 \clearpage
156 \pagestyle{headings}
157 % Make TeX shut up.
158 \hbadness=10000
159 \newcount\hbadness
160 \hfuzz=\maxdimen
161 %
162 \PrintChanges

```

Stop here if ltxdoc.cfg says \AtEndOfClass{\OnlyDescription}.

Print Change History and Index. Please refer to Appendix C.1 for processing of Change History and Index.

```

163 \clearpage
164 %
165 \beginngroup
166   \def\endash{--}
167   \catcode'\-\active
168   \def-\{\futurelet\temp\indexdash}
169   \def\indexdash{\ifx\temp-\endash\fi}
170
171   \PrintIndex
172 \endgroup

```

Make sure that the index is not printed twice (ltxdoc.cfg might have a second command).

```

173 \let\PrintChanges\relax
174 \let\PrintIndex\relax
175 \end{document}
176 \pdoc

```

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.

```

177 <shprog>
178 for f in pldoc.toc pldoc.idx pldoc.glo ; do
179 if [ -e $f ]; then rm $f; fi
180 done

```

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

```

181 echo "" > ltxdoc.cfg

```

Now process `pldoc.tex`.

```

182 latex pldoc.tex

```

Make the Change log and Glossary (Change History) using `mendex`. ‘Mendex’ is a Japanese index processor, which is mostly upper 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 $\text{\LaTeX} 2_{\epsilon}$.

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.)

```
183 mendex -s gind.ist -d pldoc.dic -o pldoc.ind pldoc.idx
184 mendex -f -s gglo.ist -o pldoc.gls pldoc.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.

```
185 echo "\includeonly{" > ltxdoc.cfg
186 platex pldoc.tex
```

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

```
187 echo "" > ltxdoc.cfg
188 platex pldoc.tex
189 # EOT
190 </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.

```
191 <*plprog>
192 ##
193 ## DOCSTRIP 文書内の環境や条件の入れ子を調べる perl スクリプト
194 ##
195 push(@dst,"DUMMY"); push(@dst,"000");
196 push(@env,"DUMMY"); push(@env,"000");
197 while (<>) {
198     if (/^%<\*([>]+)>/) { # check conditions
199         push(@dst,$1);
200         push(@dst,$.);
201     } elsif (/^%<\[/([>]+)>/) {
202         $linenum = pop(@dst);
203         $conditions = pop(@dst);
204         if ($1 ne $conditions) {
205             if ($conditions eq "DUMMY") {
206                 print "$ARGV: '</$1>' (l.$.) is not started.\n";
207                 push(@dst,"DUMMY");
208                 push(@dst,"000");
209             } else {
210                 print "$ARGV: '<*$conditions>' (l.$linenum) is ended ";
211                 print "by '<*$1>' (l.$.)\n";
```

```

212     }
213   }
214 }

215 if (/^% *\\begin\\{verbatim\\}/) { # check environments
216   while(<>) {
217     last if (/^% *\\end\\{verbatim\\}/);
218   }
219 } elsif (/^% *\\begin\\{([^{]+)\\}\\{(.*)\\}/) {
220   push(@env,$1);
221   push(@env,$.);
222 } elsif (/^% *\\begin\\{([^{]+)\\}\\}/) {
223   push(@env,$1);
224   push(@env,$.);
225 } elsif (/^% *\\end\\{([^{]+)\\}\\}/) {
226   $linenum = pop(@env);
227   $environment = pop(@env);
228   if ($1 ne $environment) {
229     if ($environment eq "DUMMY") {
230       print "$ARGV: '\\end{$1}' (l.$.) is not started.\n";
231       push(@env,"DUMMY");
232       push(@env,"000");
233     } else {
234       print "$ARGV: \\begin{$environment} (l.$linenum) is ended ";
235       print "by \\end{$1} (l.$.)\n";
236     }
237   }
238 }

239 }

240 $linenum = pop(@dst);
241 $conditions = pop(@dst);
242 while ($conditions ne "DUMMY") {
243   print "$ARGV: '<*$conditions>' (l.$linenum) is not ended.\n";
244   $linenum = pop(@dst);
245   $conditions = pop(@dst);
246 }

247 $linenum = pop(@env);
248 $environment = pop(@env);
249 while ($environment ne "DUMMY") {
250   print "$ARGV: '\\begin{$environment}' (l.$linenum) is not ended.\n";
251   $linenum = pop(@env);
252   $environment = pop(@env);
253 }
254 exit;
255 </plprog>

```

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.

```
256 ⟨*Xins⟩
257 \input docstrip
258 \keepsilent

259 {\catcode'#=12 \gdef\MetaPrefix{## }}

260 \declarepreamble\thispre
261 \endpreamble
262 \usepreamble\thispre

263 \declarepostamble\thispost
264 \endpostamble
265 \usepostamble\thispost

266 \generate{
267   \file{dstcheck.pl}{\from{platex.dtx}{plprog}}
268   \file{mkpldoc.sh}{\from{platex.dtx}{shprog}}
269 }
270 \endbatchfile
271 ⟨/Xins⟩
```

References

- [1] 中野 賢『日本語 L^AT_EX 2_ε ブック』アスキー, 1996.
- [2] インプレス・ラボ監修, アスキー書籍編集部編『縦組対応 パーソナル日本語 T_EX』アスキー出版局, 1994
- [3] アスキー出版技術部責任編集『日本語 T_EX テクニカルブック I』アスキー, 1990.
- [4] Haruhiko Okumura, pT_EX and Japanese Typesetting The Asian Journal of T_EX, Volume 2, No. 1, 2008.
(<http://ajt.ktug.org/2008/0201okumura.pdf>)
- [5] Hisato Hamano, Vertical Typesetting with T_EX. TUGboat issue 11:3, 1990.
(<https://tug.org/TUGboat/tb11-3/tb29hamano.pdf>)
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- [9] Michel Goossens, Frank Mittelbach, Alexander Samarin. “*The L^AT_EX Companion*”. Addison-Wesley, 1994.
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Change History

1995/05/08 v1.0		2016/05/12 v1.0i	
first edition	3	Undefine temporary command	
1995/08/25 v1.0a		<code>\orgdump</code> in the end.	4
Added ‘Compatibility’, ‘Usage of		2016/05/20 v1.0j	
DOCSTRIP’ and ‘References’ . . .	3	Add description of ‘pfltrace’	6
1996/02/01 v1.0b		2016/05/21 v1.0k	
Adjusted for the latest DOCSTRIP		Print also changes.	1
(<code>omake-sh.ins</code> and		2016/06/19 v1.0l	
<code>omake-pl.ins</code>	15	Get the patch level from	
1997/01/23 v1.0c		<code>plvers.dtx</code>	10
Adjusted for the latest DOCSTRIP.	15	2016/08/26 v1.0m	
Don’t copy <code>gind.ist</code> and <code>gglo.ist</code>		Moved loading <code>platex.cfg</code> from	
from		<code>plcore.ltx</code> to <code>platex.ltx</code> . . .	4
<code>\$TEXMF/tex/latex2e/base</code>		2016/09/14 v1.0n	
directory.	12	Improved banner saving method . .	4
1997/01/25 v1.0c		2017/09/24 v1.0o	
Add to <code>filecontents</code> environment		Allow negative patch level for	
for <code>pldoc.dic</code>	8	pre-release	10
1997/01/29 v1.0c		2017/11/11 v1.0p	
Rename <code>pltpatch.ltx</code> to		Moved banner saving code from	
<code>plpatch.ltx</code>	10	<code>platex.ltx</code> to <code>plcore.ltx</code> . . .	4
2016/01/27 v1.0d		2017/12/02 v1.0r	
Add <code>-e</code> test before <code>rm</code> command .	12	English references added	3
Updated descriptions of pL ^A T _Ε X 2 _ε		2017/12/05 v1.0s	
files	6	Moved loading default settings	
2016/02/16 v1.0e		from <code>plcore.ltx</code> to	
Add a description of <code>platexrelease</code>	8	<code>platex.ltx</code>	4
2016/04/12 v1.0f		2018/02/07 v1.0t	
Update document.	1	Moved <code>ascmac</code> package to separate	
2016/05/07 v1.0g		bundle	7
Save L ^A T _Ε X banner	4	2018/02/18 v1.0u	
2016/05/08 v1.0h		Moved <code>nidanfloat</code> package to	
Exclude <code>plpatch.ltx</code> from the		separate bundle	7
document	10		