

# About up $\LaTeX$ 2 $\epsilon$

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## *Attention:*

This document provides a brief description of up $\LaTeX$  2 $\epsilon$ , the Japanese extended version of  $\LaTeX$  2 $\epsilon$ . This version is based on ‘p $\LaTeX$  2 $\epsilon$  Community Edition.’ It is now maintained by Japanese  $\TeX$  Development Community<sup>1</sup>.

ASCII p $\TeX$  is the most popular  $\TeX$  engine in Japan and is widely used for a high-quality typesetting, even for commercial printing. However, p $\TeX$  has some limitations:

- The Character set available is limited to JIS X 0208, namely JIS level-1 and level-2
- Difficulty in handling 8-bit Latin, due to legacy double byte Japanese encodings
- Difficulty in typesetting CJK (Chinese, Japanese and Korean) multilingual documents

To overcome these weak points, a Unicode extension of p $\TeX$ , up $\TeX$ , has been developed.<sup>2</sup> The Unicode p $\LaTeX$  format run on up $\TeX$  is called up $\LaTeX$ . Current up $\LaTeX$  is maintained by Japanese  $\TeX$  Development Community,<sup>3</sup> in sync with p $\LaTeX$  community edition.<sup>4</sup> The development version is available from GitHub repository<sup>5</sup>. Any bug reports and requests should be sent to Japanese  $\TeX$  Development Community, using GitHub Issue system.

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<sup>1</sup><https://texjp.org>

<sup>2</sup><http://www.t-lab.opal.ne.jp/tex/uptex.html>

<sup>3</sup><https://texjp.org>

<sup>4</sup><https://github.com/texjporg/platex>

<sup>5</sup><https://github.com/texjporg/uplatex>

# 1 Introduction to this document

This document briefly describes  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ , but is not a manual of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ . The basic functions of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  are almost the same with those of  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  and  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ , so please refer to the documentation of those formats.

For  $\text{upT}_{\text{E}}\text{X}$ , please refer to the official website or [1] (in English).

This document consists of following parts:

**Section 1** This section; describes this document itself.

**Section 2** Brief explanation of extensions in  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ . Also describes the standard classes and packages.

**Section 3** The compatibility note for users of the old version of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  or those of the original  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}/\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ .

**Appendix A** Describes `DOCSTRIP` Options for this document.

**Appendix B** Description of ‘`upldoc.tex`’ (counterpart for ‘`source2e.tex`’ in  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ ).

**Appendix C** Description of a shell script to process ‘`upldoc.tex`’, etc.

## 2 About Functions of $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$

The structure of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  is similar to that of  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ ; it consists of 3 types of files: a format (`uplatex.ltx`), classes and packages.

### 2.1 About the Format

To make a format for  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$ , process “`uplatex.ltx`” with INI mode of  $\epsilon\text{-upT}_{\text{E}}\text{X}$ .<sup>6</sup> A handy command ‘`fmtutil-sys`’ (or ‘`fmtutil`’) for this purpose is available in  $\text{T}_{\text{E}}\text{X}$  Live. The following command generates `uplatex.fmt`.

```
fmtutil-sys --byfmt uplatex
```

The content of `uplatex.ltx` is shown below. In the current version of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$ , first we simply load `latex.ltx` and modify/extend some definitions by loading `plcore.ltx` (available from  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ) and `uplcore.ltx`.

```
1 < *plcore >
```

---

<sup>6</sup>Formerly both  $\text{upT}_{\text{E}}\text{X}$  and  $\epsilon\text{-upT}_{\text{E}}\text{X}$  can make the format file for  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$ , however, it’s not true anymore because  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  requires  $\epsilon\text{-T}_{\text{E}}\text{X}$  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 T<sub>E</sub>X Live, `hyphen.cfg` provided by “Babel” package will be used.

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

Load `plcore.ltx` and `uplcore.ltx`.

```
5 \typeout{*****^J%
6      *^J%
7      * making upLaTeX format^^J%
8      *^J%
9      *****}
10 \makeatletter
11 \input plcore.ltx
12 \input uplcore.ltx
```

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

```
13 \InputIfFileExists{upldefs.cfg}
14     {\typeout{*****^J%
15          * Local config file upldefs.cfg used^^J%
16          *****}}}%
17     {\input{upldefs.ltx}}
```

In the previous version, we displayed upL<sup>A</sup>T<sub>E</sub>X 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.

```
18 %\the\everyjob
```

Load `uplatex.cfg` if it exists at runtime of upL<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. (Counterpart of `platex.cfg` in pL<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>.)

```
19 \everyjob\expandafter{%
20   \the\everyjob
21   \IfFileExists{uplatex.cfg}{%
22     \typeout{*****^J%
23          * Loading uplatex.cfg.^J%
24          *****}%
25     \input{uplatex.cfg}}{%
26   }
```

Dump to the format file.

```
27 \let\dump\orgdump
28 \let\orgdump\@undefined
29 \makeatother
30 \dump
31 %\endinput
```

The file `uplcore.ltx`, which provides modifications/extensions to make  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ , is a concatenation of stripped files below using `DOCSTRIP` program.

- `uplvers.dtx` defines the format version of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ .
- `uplfonts.dtx` extends `NFSS2` for Japanese font selection.
- `plcore.dtx` (the same content as  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ ); defines other modifications to  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ .

Moreover, default settings of pre-loaded fonts and typesetting parameters are done by loading `upldefs.ltx` inside `uplatex.ltx`.<sup>7</sup> This file `upldefs.ltx` is also stripped from `uplfonts.dtx`.

*Attention:*

You can customize  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$  by tuning these settings. If you need to do that, copy/rename it as `upldefs.cfg` and edit it, instead of overwriting `upldefs.ltx` itself. If a file named `upldefs.cfg` is found at a format creation time, it will be read as a substitute of `upldefs.ltx`.

As shown above, the files in  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  is named after  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  ones, prefixed with “u.”

### 2.1.1 Version

The version (like “2018-05-20u02”) and the format name (“`pLaTeX2e`”) of  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$  are defined in `uplvers.dtx`. This is similar to  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ , which defines those in `plvers.dtx`.

### 2.1.2 NFSS2 Commands

$\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$  shares `plcore.dtx` with  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ , so the extensions of `NFSS2` for selecting Japanese fonts are available.

### 2.1.3 Output Routine and Floats

$\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$  shares `plcore.dtx` with  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ , so the output routine and footnote macros will behave similar to  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$ .

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<sup>7</sup>Older  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  loaded `upldefs.ltx` inside `uplcore.ltx`; however,  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  community edition newer than 2018 loads `upldefs.ltx` inside `uplatex.ltx`.

## 2.2 Classes and Packages

Classes and packages bundled with  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  are based on those in original  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ , and modified some parameters.

$\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  classes:

- `ujarticle.cls`, `ujbook.cls`, `ujreport.cls`  
Standard *yoko-kumi* (horizontal writing) classes; stripped from `ujclasses.dtx`.  
 $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  edition of `jarticle.cls`, `jbook.cls` and `jreport.cls`.
- `utarticle.cls`, `utbook.cls`, `utreport.cls`  
Standard *tate-kumi* (vertical writing) classes; stripped from `ujclasses.dtx`.  
 $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  edition of `tarticle.cls`, `tbook.cls` and `treport.cls`.

We don't provide  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  edition of `jltxdoc.cls`, but the one from  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  can be used also on  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  without problem.

$\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  packages:

- `uptrace.sty`  
 $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  version of `tracefmt.sty`; the package `tracefmt.sty` overwrites  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ -style NFSS2 commands, so `uptrace.sty` provides redefinitions to recover  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  extensions. Stripped from `uplfonts.dtx`.

Other  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  packages work also on  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .

## 3 Compatibility with Other Formats and Older Versions

Here we provide some information about the compatibility between current  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  and older versions or original  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}/\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ .

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

$\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  is in most part upper compatible with  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ , so you can move from  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  to  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  by simply replacing the document class and some macros. However, the default Japanese font metrics in  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  is different from those in  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ ; therefore, you should not expect identical output from both  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$  and  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X } 2_{\epsilon}$ .

Note that up $\text{\LaTeX}$  is a new format, so we do *not* provide support for 2.09 compatibility mode. Follow the standard  $\text{\LaTeX} 2_{\epsilon}$  convention!

We hope that most classes and packages meant for  $\text{\LaTeX} 2_{\epsilon}$ /p $\text{\LaTeX} 2_{\epsilon}$  works also for up $\text{\LaTeX} 2_{\epsilon}$  without any modification. However for example, if a class or a package uses Kanji encoding ‘JY1’ or ‘JT1’ (default on p $\text{\LaTeX} 2_{\epsilon}$ ), an error complaining the mismatch of Kanji encoding might happen on up $\text{\LaTeX}$ , in which the default is ‘JY2’ and ‘JT2.’ In this case, we have to say that the class or package does not support up $\text{\LaTeX} 2_{\epsilon}$ ; you should use p $\text{\LaTeX}$ , or report to the author of the package or class.

### 3.2 Support for Package ‘latexrelease’

p $\text{\LaTeX}$  provides ‘latexrelease’ package, which is based on ‘latexrelease’ package (introduced in  $\text{\LaTeX}$  <2015/01/01>). It could be better if we also provide a similar package on up $\text{\LaTeX}$ , but currently we don’t need it; up $\text{\LaTeX}$  does not have any recent up $\text{\LaTeX}$ -specific changes. So, you can safely use ‘latexrelease’ package for emulating the specified format date.

## A DOCSTRIP Options

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

<i>Option</i>	<i>Function</i>
plcore	Generates a fragment of format sources
pldoc	Generates ‘upldoc.tex’ for typesetting up $\text{\LaTeX} 2_{\epsilon}$ sources
shprog	Generates a shell script to process ‘upldoc.tex’
Xins	Generates a DOCSTRIP batch file ‘Xins.ins’ for generating the above shell/perl scripts

## B Documentation of up $\text{\LaTeX} 2_{\epsilon}$ sources

The contents of ‘upldoc.tex’ for typesetting up $\text{\LaTeX} 2_{\epsilon}$  sources is described here. Compared to individual processings, batch processing using ‘upldoc.tex’ prints also changes and an index.

By default, the description of up $\text{\LaTeX} 2_{\epsilon}$  sources is written in Japanese. If you need English version, first save

```
\newif\ifJAPANESE
```

as `uplatex.cfg`, and process `upldoc.tex` (up $\text{\LaTeX}$  2 $\epsilon$  newer than July 2016 is required).

Here we explain only difference between `pldoc.tex` (p $\text{\LaTeX}$  2 $\epsilon$ ) and `upldoc.tex` (up $\text{\LaTeX}$  2 $\epsilon$ ).

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

The document of p $\text{\LaTeX}$  2 $\epsilon$  requires `plext` package, since `plext.dtx` contains several examples of partial vertical writing. However, we don't have such examples in up $\text{\LaTeX}$  2 $\epsilon$  files, so no need for it.

```
38 \documentclass{jltxdoc}
39 %\usepackage{plext} %% comment out for upLaTeX
40 \listfiles
41
42 \DoNotIndex{\def,\long,\edef,\xdef,\gdef,\let,\global}
43 \DoNotIndex{\if,\ifnum,\ifdim,\ifcat,\ifmmode,\ifvmode,\ifhmode,%
44             \iftrue,\iffalse,\ifvoid,\ifx,\ifeof,\ifcase,\else,\or,\fi}
45 \DoNotIndex{\box,\copy,\setbox,\unvbox,\unhbox,\hbox,%
46             \vbox,\vtop,\vcenter}
47 \DoNotIndex{@empty,\immediate,\write}
48 \DoNotIndex{\egroup,\bgroup,\expandafter,\begingroup,\endgroup}
49 \DoNotIndex{\divide,\advance,\multiply,\count,\dimen}
50 \DoNotIndex{\relax,\space,\string}
51 \DoNotIndex{\csname,\endcsname,\@spaces,\openin,\openout,%
52             \closein,\closeout}
53 \DoNotIndex{\catcode,\endinput}
54 \DoNotIndex{\jobname,\message,\read,\the,\m@ne,\noexpand}
55 \DoNotIndex{\hsize,\vsize,\hskip,\vskip,\kern,\hfil,\hfill,\hss,\vss,\unskip}
56 \DoNotIndex{\m@ne,\z@,\z@skip,\@ne,\tw@,\p@,\@minus,\@plus}
57 \DoNotIndex{\dp,\wd,\ht,\setlength,\addtolength}
58 \DoNotIndex{\newcommand,\renewcommand}
59
60 \ifJAPANESE
61 \IndexPrologue{\part*{索引}}%
62             \markboth{索引}{索引}%
63             \addcontentsline{toc}{part}{索引}%
64 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。
65 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。
66 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。}
67 \else
68 \IndexPrologue{\part*{Index}}%
69             \markboth{Index}{Index}%
70             \addcontentsline{toc}{part}{Index}%
71 The italic numbers denote the pages where the corresponding entry
72 is described, numbers underlined point to the definition,
```

```

73 all others indicate the places where it is used.}
74 \fi
75 %
76 \ifJAPANESE
77 \GlossaryPrologue{\part*{変更履歴}}%
78             \markboth{変更履歴}{変更履歴}%
79             \addcontentsline{toc}{part}{変更履歴}}
80 \else
81 \GlossaryPrologue{\part*{Change History}}%
82             \markboth{Change History}{Change History}%
83             \addcontentsline{toc}{part}{Change History}}
84 \fi
85
86 \makeatletter
87 \def\changes@#1#2#3{%
88   \let\protect\@unexpandable\protect
89   \edef\@tempa{\noexpand\glossary{#2\space\currentfile\space#1\levelchar
90     \ifx\saved@macroname\@empty
91       \space\actualchar\generalname
92     \else
93       \expandafter\@gobble
94       \saved@macroname\actualchar
95       \string\verb\quotechar*%
96       \verbatimchar\saved@macroname
97       \verbatimchar
98     \fi
99     :\levelchar #3}}%
100   \@tempa\endgroup\@esphack}
101 \makeatother
102 \RecordChanges
103 \CodelineIndex
104 \EnableCrossrefs
105 \setcounter{IndexColumns}{2}
106 \settowidth\MacroIndent{\ttfamily\scriptsize 000\ }

```

Here starts the document body.

```

107 \begin{document}
108 \title{The \upLaTeXe\ Sources}
109 \author{Ken Nakano \& Japanese \TeX\ Development Community \& TTK}
110
111 % Get the date and patch level from uplvers.dtx
112 \makeatletter
113 \let\patchdate=\@empty
114 \begingroup
115   \def\ProvidesFile#1[#2 #3]#4\def\uppatch@level#5{%
116     \date{#2}\xdef\patchdate{#5}\endinput}
117   \input{uplvers.dtx}
118 \endgroup
119
120 % Add the patch version if available.

```



```

121 \def\Xpatch{}
122 \ifx\patchdate\Xpatch\else
123   \edef\@date{\@date\space version \patchdate}
124 \fi
125 \makeatother
126
127 \pagenumbering{roman}
128 \maketitle
129 \renewcommand\maketitle{}
130 \tableofcontents
131 \clearpage
132 \pagenumbering{arabic}
133
134 \DocInclude{uplvers}    % upLaTeX version
135
136 \DocInclude{uplfonts}  % NFSS2 commands
137
138 \DocInclude{ukinsoku}  % kinsoku parameter
139
140 \DocInclude{ujclasses} % Standard class
141
142 \StopEventually{\end{document}}
143
144 \clearpage
145 \pagestyle{headings}
146 % Make TeX shut up.
147 \hbadness=10000
148 \newcount\hbadness
149 \hfuzz=\maxdimen
150 %
151 \PrintChanges
152 \clearpage
153 %
154 \begingroup
155   \def\endash{--}
156   \catcode'\- \active
157   \def-\{\futurelet\temp\indexdash}
158   \def\indexdash{\ifx\temp-\endash\fi}
159
160   \PrintIndex
161 \endgroup
162 \let\PrintChanges\relax
163 \let\PrintIndex\relax
164 \end{document}
165 \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.

The script is almost identical to that in  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\varepsilon}$ , so here we describe only the difference.

```
166 <shprog>
167 <ja>rm -f upldoc.toc upldoc.idx upldoc.glo
168 <en>rm -f upldoc-en.toc upldoc-en.idx upldoc-en.glo
169 echo "" > ltxdoc.cfg
170 <ja>uplatex upldoc.tex
171 <en>uplatex -jobname=upldoc-en upldoc.tex
```

To make the Change log and Glossary (Change History) for  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X}$  using ‘`mendex`,’ we need to run it in UTF-8 mode. So, option `-U` is important.<sup>8</sup>

```
172 <ja>mendex -U -s gind.ist -d upldoc.dic -o upldoc.ind upldoc.idx
173 <en>mendex -U -s gind.ist -d upldoc.dic -o upldoc-en.ind upldoc-en.idx
174 <ja>mendex -U -f -s gglo.ist -o upldoc.gls upldoc.glo
175 <en>mendex -U -f -s gglo.ist -o upldoc-en.gls upldoc-en.glo
176 echo "\includeonly{" > ltxdoc.cfg
177 <ja>uplatex upldoc.tex
178 <en>uplatex -jobname=upldoc-en upldoc.tex
179 echo "" > ltxdoc.cfg
180 <ja>uplatex upldoc.tex
181 <en>uplatex -jobname=upldoc-en upldoc.tex
182 # EOT
183 </shprog>
```

### C.2 Perl Script `dstcheck.pl`

The one from  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\varepsilon}$  can be use without any change, so omitted here in  $\text{upL}^{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\varepsilon}$ .

### C.3 DOCSTRIP Batch file

Here we introduce a DOCSTRIP batch file ‘`Xins.ins`,’ which generates the script described in Appendix C.1. The code is almost identical to that in  $\text{pL}^{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\varepsilon}$ .

```
184 <*Xins>
185 \input docstrip
186 \keepsilent
187 {\catcode'#=12 \gdef\MetaPrefix{## }}
```

---

<sup>8</sup>The command ‘`uplatex`’ should be also in UTF-8 mode, but it defaults to UTF-8 mode; therefore, we don’t need to add `-kanji=utf8` explicitly.

```

188 \declarepreamble\thispre
189 \endpreamble
190 \usepreamble\thispre

191 \declarepostamble\thispost
192 \endpostamble
193 \usepostamble\thispost

194 \generate{
195   \file{mkpldoc.sh}{\from{uplatex.dtx}{shprog,ja}}
196   \file{mkpldoc-en.sh}{\from{uplatex.dtx}{shprog,en}}
197 }
198 \endbatchfile
199 </Xins>

```

## References

- [1] Takuji Tanaka, Up $\text{\TeX}$  — Unicode version of p $\text{\TeX}$  with CJK extensions  
TUGboat issue 34:3, 2013.  
(<http://tug.org/TUGboat/tb34-3/tb108tanaka.pdf>)

## Change History

2011/05/07 v1.0c-u00	2017/11/29 v1.0q-u01
Created upL <sup>A</sup> T <sub>E</sub> X version based on	New English documentation added
pL <sup>A</sup> T <sub>E</sub> X one (based on	(based on platex.dtx
platex.dtx 1997/01/29 v1.0c) . . . 1	2017/11/29 v1.0q) . . . . . 1
2016/05/08 v1.0h-u00	2017/12/05 v1.0s-u01
Exclude <b>uplpatch.ltx</b> from the	Moved loading default settings
document (based on platex.dtx	from <b>uplcore.ltx</b> to
2016/05/08 v1.0h) . . . . . 8	<b>uplatex.ltx</b> (based on
2016/06/06 v1.0k-u01	platex.dtx 2017/12/05 v1.0s) . . . 3
Update documents for upL <sup>A</sup> T <sub>E</sub> X. . . . 1	2017/12/10 v1.0s-u02
2016/06/19 v1.0l-u01	Load <b>plcore.ltx</b> before
Get the patch level from	<b>uplcore.ltx</b> (recent version of
<b>uplvers.dtx</b> (based on	pL <sup>A</sup> T <sub>E</sub> X is assumed) . . . . . 3
platex.dtx 2016/06/19 v1.0l) . . . 8	2018/04/08 v1.0w-u02
2016/08/26 v1.0m-u01	Stop showing banner during
Moved loading <b>uplatex.cfg</b> from	format generation for safety
<b>uplcore.ltx</b> to <b>uplatex.ltx</b>	(based on platex.dtx
(based on platex.dtx	2018/04/08 v1.0w) . . . . . 3
2016/08/26 v1.0m) . . . . . 3	