

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

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Date: 2020/09/28

up $\LaTeX$  is a Unicode version of Japanese  $\LaTeX$  2 $\epsilon$ . This version is based on ‘ $\LaTeX$  2 $\epsilon$  Community Edition.’

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 conflict with legacy multibyte 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>1</sup> The Unicode  $\LaTeX$  format run on up $\TeX$  is called up $\LaTeX$ . Current up $\LaTeX$  is maintained by Japanese  $\TeX$  Development Community,<sup>2</sup> in sync with  $\LaTeX$  community edition.<sup>3</sup> It runs on  $\epsilon$ -up $\TeX$ , an engine with both up $\TeX$  and  $\epsilon$ -p $\TeX$  features.

The development version is available from GitHub repository<sup>4</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><http://www.t-lab.opal.ne.jp/tex/uptex.html>

<sup>2</sup><https://texjp.org>

<sup>3</sup><https://github.com/texjporg/platex>

<sup>4</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>5</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>5</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. Some code may be executed after loading.

```
13 \InputIfFileExists{upldefs.cfg}
14     {\typeout{*****^J%
15             * Local config file upldefs.cfg used^J%
16             *****}%
17     {\input{upldefs.ltx}}}
18 \ifx\code@after@pldefs\@undefined\else \code@after@pldefs \fi
```

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.

```
19 %\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>.)

```
20 \everyjob\expandafter{%
21   \the\everyjob
22   \IfFileExists{uplatex.cfg}{%
23     \typeout{*****^J%
24             * Loading uplatex.cfg.^J%
25             *****}%
26     \input{uplatex.cfg}}{%
27 }
```

Dump to the format file.

```
28 \let\dump\orgdump
29 \let\orgdump\@undefined
30 \makeatother
31 \dump
32 %\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>6</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 “2020-10-01u03”) 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>6</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  $\text{up}\text{\LaTeX} 2_{\epsilon}$  are based on those in original  $\text{p}\text{\LaTeX} 2_{\epsilon}$ , and modified some parameters.

$\text{up}\text{\LaTeX} 2_{\epsilon}$  classes:

- `ujarticle.cls`, `ujbook.cls`, `ujreport.cls`  
Standard *yoko-kumi* (horizontal writing) classes; stripped from `ujclasses.dtx`.  
 $\text{up}\text{\LaTeX}$  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`.  
 $\text{up}\text{\LaTeX}$  edition of `tarticle.cls`, `tbook.cls` and `treport.cls`.

We don't provide  $\text{up}\text{\LaTeX}$  edition of `jltxdoc.cls`, but the one from  $\text{p}\text{\LaTeX}$  can be used also on  $\text{up}\text{\LaTeX}$  without problem.

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

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

Other  $\text{p}\text{\LaTeX}$  packages work also on  $\text{up}\text{\LaTeX}$ .

## 3 Compatibility with Other Formats and Older Versions

Here we provide some information about the compatibility between current  $\text{up}\text{\LaTeX} 2_{\epsilon}$  and older versions or original  $\text{p}\text{\LaTeX} 2_{\epsilon}/\text{\LaTeX} 2_{\epsilon}$ .

### 3.1 Compatibility with $\text{p}\text{\LaTeX} 2_{\epsilon}/\text{\LaTeX} 2_{\epsilon}$

$\text{up}\text{\LaTeX} 2_{\epsilon}$  is in most part upward compatible with  $\text{p}\text{\LaTeX} 2_{\epsilon}$ , so you can move from  $\text{p}\text{\LaTeX} 2_{\epsilon}$  to  $\text{up}\text{\LaTeX} 2_{\epsilon}$  by simply replacing the document class and some macros. However, the default Japanese font metrics in  $\text{up}\text{\LaTeX} 2_{\epsilon}$  is different from those in  $\text{p}\text{\LaTeX} 2_{\epsilon}$ ; therefore, you should not expect identical output from both  $\text{p}\text{\LaTeX} 2_{\epsilon}$  and  $\text{up}\text{\LaTeX} 2_{\epsilon}$ .

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 $\epsilon$ ).

```
34 <*pldoc>
35 \begin{filecontents}{upldoc.dic}
36 西暦      せいれき
37 和暦      われき
38 \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.

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

```

74 all others indicate the places where it is used.}
75 \fi
76 %
77 \ifJAPANESE
78 \GlossaryPrologue{\part*{変更履歴}%
79             \markboth{変更履歴}{変更履歴}%
80             \addcontentsline{toc}{part}{変更履歴}}
81 \else
82 \GlossaryPrologue{\part*{Change History}%
83             \markboth{Change History}{Change History}%
84             \addcontentsline{toc}{part}{Change History}}
85 \fi
86
87 \makeatletter
88 \def\changes@#1#2#3{%
89   \let\protect\@unexpandable@protect
90   \edef\@tempa{\noexpand\glossary{#2\space
91             \currentfile\space#1\levelchar
92             \ifx\saved@macroname\@empty
93               \space\actualchar\generalname
94             \else
95               \expandafter\@gobble
96               \saved@macroname\actualchar
97               \string\verb\quotechar*%
98               \verbatimchar\saved@macroname
99               \verbatimchar
100            \fi
101            : \levelchar #3}}%
102   \@tempa\endgroup\@esphack}
103 \renewcommand*{\MacroFont}{\fontencoding\encodingdefault
104             \fontfamily\ttdefault
105             \fontseries\mddefault
106             \fontshape\updefault
107             \small
108             \hfuzz 6pt\relax}
109 \renewcommand*{\l@section}{\@dottedtocline{2}{1.5em}{2.8em}}
110 \renewcommand*{\l@subsubsection}{\@dottedtocline{3}{3.8em}{3.4em}}
111 \makeatother
112 \RecordChanges
113 \CodelineIndex
114 \EnableCrossrefs
115 \setcounter{IndexColumns}{2}
116 \settowidth\MacroIndent{\ttfamily\scriptsize 000\ }

Set the title, authors and the date for this document.
117 \title{The \upLaTeXe\ Sources}
118 \author{Ken Nakano \& Japanese \TeX\ Development Community \& TTK}
119
120 % Get the (temporary) date and up-patch level from uplvers.dtx
121 \makeatletter

```



```

122 \let\patchdate=\@empty
123 \begingroup
124   \def\ProvidesFile#1[#2 #3]#4\def\uppatch@level#5{%
125     \date{#2}\xdef\patchdate{#5}\endinput}
126   \input{uplvers.dtx}
127 \endgroup
128
129 % Add the patch version if available.
130 \def\Xpatch{}
131 \ifx\patchdate\Xpatch\else
132   \edef\@date{\@date\space version \patchdate}
133 \fi
134
135 % Obtain the last update info, as upLaTeX does not change format date
136 % -> if successful, reconstruct the date completely
137 \def\lastupd@te{0000/00/00}
138 \begingroup
139   \def\ProvidesFile#1[#2 #3]{%
140     \def\@tempd@te{#2}\endinput
141     \@ifl@t@r{\@tempd@te}{\lastupd@te}{%
142       \global\let\lastupd@te\@tempd@te
143     }{}}
144   \let\ProvidesClass\ProvidesFile
145   \let\ProvidesPackage\ProvidesFile
146   \input{uplvers.dtx}
147   \input{uplfonts.dtx}
148   \input{ukinsoku.dtx}
149   \input{ujclasses.dtx}
150 \endgroup
151 \@ifl@t@r{\lastupd@te}{0000/00/00}{%
152   \date{Version \patchdate\break (last updated: \lastupd@te)}}%
153 }{}
154 \makeatother

Here starts the document body.

155 \begin{document}
156 \pagenumbering{roman}
157 \maketitle
158 \renewcommand\maketitle{}
159 \tableofcontents
160 \clearpage
161 \pagenumbering{arabic}
162
163 \DocInclude{uplvers} % upLaTeX version
164
165 \DocInclude{uplfonts} % NFSS2 commands
166
167 \DocInclude{ukinsoku} % kinsoku parameter
168
169 \DocInclude{ujclasses} % Standard class

```

```

170
171 \StopEventually{\end{document}}
172
173 \clearpage
174 \pagestyle{headings}
175 % Make TeX shut up.
176 \hbadness=10000
177 \newcount\hbadness
178 \hfuzz=\maxdimen
179 %
180 \PrintChanges
181 \clearpage
182 %
183 \begingroup
184   \def\endash{--}
185   \catcode'\- \active
186   \def-\{\futurelet\temp\indexdash}
187   \def\indexdash{\ifx\temp-\endash\fi}
188
189   \PrintIndex
190 \endgroup
191 \let\PrintChanges\relax
192 \let\PrintIndex\relax
193 \end{document}
194 \pdoc)

```

## C Additional Utility Programs

### C.1 Shell Script `mkpdoc.sh`

A shell script to process ‘`pdoc.tex`’ and produce a fully indexed source code description. Run `sh mkpdoc.sh` to use it.

The script is almost identical to that in `pLATEX 2ε`, so here we describe only the difference.

```

195 ⟨*shprog⟩
196 ⟨ja⟩rm -f upldoc.toc upldoc.idx upldoc.glo
197 ⟨en⟩rm -f upldoc-en.toc upldoc-en.idx upldoc-en.glo
198 echo "" > ltxdoc.cfg
199 ⟨ja⟩uplatex upldoc.tex
200 ⟨en⟩uplatex -jobname=upldoc-en upldoc.tex

```

To make the Change log and Glossary (Change History) for `upLATEX` using ‘`mendex`,’ we need to run it in UTF-8 mode. So, option `-U` is important.<sup>7</sup>

```

201 ⟨ja⟩mendex -U -s gind.ist -d upldoc.dic -o upldoc.ind upldoc.idx

```

---

<sup>7</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.

```

202 <en>mendex -U -s gind.ist -d upldoc.dic -o upldoc-en.ind upldoc-en.idx
203 <ja>mendex -U -f -s gglo.ist -o upldoc.gls upldoc.glo
204 <en>mendex -U -f -s gglo.ist -o upldoc-en.gls upldoc-en.glo
205 echo "\includeonly{" > ltxdoc.cfg
206 <ja>uplatex upldoc.tex
207 <en>uplatex -jobname=upldoc-en upldoc.tex
208 echo "" > ltxdoc.cfg
209 <ja>uplatex upldoc.tex
210 <en>uplatex -jobname=upldoc-en upldoc.tex
211 # EOT
212 </shprog>

```

## C.2 Perl Script dstcheck.pl

The one from pL<sup>A</sup>T<sub>ε</sub>X can be use without any change, so omitted here in upL<sup>A</sup>T<sub>ε</sub>X.

## 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 pL<sup>A</sup>T<sub>ε</sub>X.

```

213 <*Xins>
214 \input docstrip
215 \keepsilent
216 {\catcode'#=12 \gdef\MetaPrefix{## }}
217 \declarepreamble\thispre
218 \endpreamble
219 \usepreamble\thispre
220 \declarepostamble\thispost
221 \endpostamble
222 \usepostamble\thispost
223 \generate{
224   \file{mkpldoc.sh}{\from{uplatex.dtx}{shprog,ja}}
225   \file{mkpldoc-en.sh}{\from{uplatex.dtx}{shprog,en}}
226 }
227 \endbatchfile
228 </Xins>

```

## References

- [1] Takuji Tanaka, UpTeX — Unicode version of pTeX with CJK extensions  
TUGboat issue 34:3, 2013.  
(<http://tug.org/TUGboat/tb34-3/tb108tanaka.pdf>)

## Change History

2011/05/07 v1.0c-u00	Created up $\LaTeX$ version based on p $\LaTeX$ one (based on platex.dtx 1997/01/29 v1.0c) . . . 1	from <code>uplcore.ltx</code> to <code>uplatex.ltx</code> (based on platex.dtx 2017/12/05 v1.0s) . . . 3
2016/05/08 v1.0h-u00	Exclude <code>uplpatch.ltx</code> from the document (based on platex.dtx 2016/05/08 v1.0h) . . . . . 8	2017/12/10 v1.0s-u02
2016/06/06 v1.0k-u01	Update documents for up $\LaTeX$ . . . . . 1	Load <code>plcore.ltx</code> before <code>uplcore.ltx</code> (recent version of p $\LaTeX$ is assumed) . . . . . 3
2016/06/19 v1.0l-u01	Get the patch level from <code>uplvers.dtx</code> (based on platex.dtx 2016/06/19 v1.0l) . . . 8	2018/04/08 v1.0w-u02
2016/08/26 v1.0m-u01	Moved loading <code>uplatex.cfg</code> from <code>uplcore.ltx</code> to <code>uplatex.ltx</code> (based on platex.dtx 2016/08/26 v1.0m) . . . . . 3	Stop showing banner during format generation for safety (based on platex.dtx 2018/04/08 v1.0w) . . . . . 3
2017/11/29 v1.0q-u01	New English documentation added (based on platex.dtx 2017/11/29 v1.0q) . . . . . 1	2018/09/03 v1.0x-u02
2017/12/05 v1.0s-u01	Moved loading default settings	Update document. (based on platex.dtx 2018/09/03 v1.0x) . . . 1
		2018/09/22 v1.0y-u02
		Show last update info on <code>upldoc.pdf</code> (based on platex.dtx 2018/09/22 v1.0y) . . . 8
		2019/05/22 v1.0y-u03
		Update document. . . . . 1
		2020/09/28 v1.1b-u03
		Add hook after loading defs . . . . . 3