The pmboxdraw package

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Abstract

Package pmboxdraw declares box drawings characters of old code pages, e.g. cp437. It uses rules instead of using a font.

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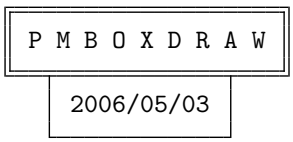
1 User interface



1.1 Introduction

In old code pages (CP 437, ...) many slots are occupied by graphical characters. The definition files for the input encodings that come with LaTeX's package inputenc ignore these characters. This packages tries to close this gap. Package inputenx provides more complete definitions files of input encodings ([1]).

The graphical characters are available in some fonts, mostly some derivates of Courier. However, the symbols are usually used to gegnerate some kind of ASCII art. Thus it should fit with the current typewriter font in use. That means:

- Same and constant symbol width.
- Use of the full line height. Vertical lines should not be interrupted if the symbols that contribute to that lines are in adjacent text lines.

Therefore I decided to generate the symbols by rules. Parameters such as rule width and box dimensions are accessible at macro level. This avoids to generate many fonts for the used typewriter fonts (Courier, LuxiMono, Computer/Latin Modern, ...).

The disadvantage is that there are no characters in the output file, just rules. Thus operations such as cut and paste or text search will not detect these graphical characters.

1.2 Setup

Usually the box drawings symbols of this package derive its parameters from the current font. But they can be set explicitly.

`\pmboxdrawbox` {⟨*template*⟩}

The ⟨*template*⟩ is used as size template for the symbols. It is initialized by `\strut0`. (Usually `\strut` carries the information about the `\baselineskip` and `0` the symbol width.)

`\pmboxdrawrulewidth` {⟨*dimen*⟩}

This macro allows the setup of the rule width used in the symbols. It is initialized with `0.1\width`, that means 10 % of the symbol width. `\width`, `\height`, and `\depth` can be used here and are set to the corresponding symbol box parameter.

`\pmboxdrawdoublerulesep` {⟨*dimen*⟩}

Some symbols have double lines. The distance between the lines is configured by this macro. It is set to `0.25\width`, a quarter of the symbol width. Also `\height` and `\depth` are available.

1.3 Symbol list

The macro names for the symbols in LaTeX (LICR) are derived from Adobe's glyph names for these characters ([2]). Example:

U+2580 (▀) with glyph name upblock: `\textupblock`

Some glyph names start with SF, two individual digits follow and the name is closed by four digits zero. For the LICR name the two individual digits form a number that is converted to lowercase roman number. The trailing zeros are dropped. Example:

U+2556 (╖) with glyph name SF210000: `\textSFxxi`

The three gray symbols require package color:

U+2591 (▒) light shade: `\textltshade`
U+2592 (▒) medium shade: `\textshade`
U+2593 (▒) dark shade: `\textdkshade`

It follows a list with all graphical symbols provided by this package:

Symbol	Unicode	Glyph name	LICR
─	U+2500	SF100000	\textSFx
	box drawings light horizontal		
│	U+2502	SF110000	\textSFxi
	box drawings light vertical		
┌	U+250C	SF010000	\textSFi
	box drawings light down and right		
┐	U+2510	SF030000	\textSFiii
	box drawings light down and left		
└	U+2514	SF020000	\textSFii
	box drawings light up and right		
┘	U+2518	SF040000	\textSFiv
	box drawings light up and left		
├	U+251C	SF080000	\textSFviii
	box drawings light vertical and right		
┤	U+2524	SF090000	\textSFix
	box drawings light vertical and left		
┬	U+252C	SF060000	\textSFvi
	box drawings light down and horizontal		
┴	U+2534	SF070000	\textSFvii
	box drawings light up and horizontal		
┼	U+253C	SF050000	\textSFv
	box drawings light vertical and horizontal		
═	U+2550	SF430000	\textSFxliii
	box drawings double horizontal		
║	U+2551	SF240000	\textSFxxiv
	box drawings double vertical		
╒	U+2552	SF510000	\textSFli
	box drawings down single and right double		
╓	U+2553	SF520000	\textSFlii
	box drawings down double and right single		
╔	U+2554	SF390000	\textSFxxxix
	box drawings double down and right		
╕	U+2555	SF220000	\textSFxxii
	box drawings down single and left double		
╖	U+2556	SF210000	\textSFxxi
	box drawings down double and left single		
╗	U+2557	SF250000	\textSFxxv
	box drawings double down and left		
╘	U+2558	SF500000	\textSFl
	box drawings up single and right double		
╙	U+2559	SF490000	\textSFxlix
	box drawings up double and right single		

Symbol	Unicode	Glyph name	LICR
	U+255A	SF380000	\textSFxxxviii
	box drawings double up and right		
	U+255B	SF280000	\textSFxxviii
	box drawings up single and left double		
	U+255C	SF270000	\textSFxxvii
	box drawings up double and left single		
	U+255D	SF260000	\textSFxxvi
	box drawings double up and left		
	U+255E	SF360000	\textSFxxxvi
	box drawings vertical single and right double		
	U+255F	SF370000	\textSFxxxvii
	box drawings vertical double and right single		
	U+2560	SF420000	\textSFxlii
	box drawings double vertical and right		
	U+2561	SF190000	\textSFxix
	box drawings vertical single and left double		
	U+2562	SF200000	\textSFxx
	box drawings vertical double and left single		
	U+2563	SF230000	\textSFxxiii
	box drawings double vertical and left		
	U+2564	SF470000	\textSFxlvii
	box drawings down single and horizontal double		
	U+2565	SF480000	\textSFxlviii
	box drawings down double and horizontal single		
	U+2566	SF410000	\textSFxli
	box drawings double down and horizontal		
	U+2567	SF450000	\textSFxlv
	box drawings up single and horizontal double		
	U+2568	SF460000	\textSFxlvi
	box drawings up double and horizontal single		
	U+2569	SF400000	\textSFxl
	box drawings double up and horizontal		
	U+256A	SF540000	\textSFliv
	box drawings vertical single and horizontal double		
	U+256B	SF530000	\textSFliii
	box drawings vertical double and horizontal single		
	U+256C	SF440000	\textSFxliv
	box drawings double vertical and horizontal		
	U+2580	upblock	\textupblock
	upper half block		
	U+2584	dnblock	\textdnblock
	lower half block		
	U+2588	block	\textblock
	full block		
	U+258C	lfblock	\textlfblock
	left half block		
	U+2590	rtblock	\textrtblock
	right half block		

Symbol	Unicode	Glyph name	LICR
	U+2591 light shade	ltshade	\textltshade
	U+2592 medium shade	shade	\textshade
	U+2593 dark shade	dkshade	\textdkshade

2 Implementation

2.1 Identification

```
1 ⟨*package⟩
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pmboxdraw}%
4   [2006/05/03 v1.0 Poor man's box drawing characters (HO)]%
```

2.2 Dummy font encoding

Using a dummy font encoding because of

```
\usepackage[utf8]{inputenc}
```

```
5 \DeclareFontEncoding{pmboxdraw}{}{}
6 \DeclareFontFamily{pmboxdraw}{pmboxdraw}{}
7 \DeclareFontShape{pmboxdraw}{pmboxdraw}{m}{n}{ <-> cmr10 }{}
8 \DeclareFontSubstitution{pmboxdraw}{pmboxdraw}{m}{n}
```

2.3 Setup

\pmboxdrawbox

```
9 \newcommand*{\pmboxdrawbox}[1]{%
10   \def\pmbd@box{#1}%
11 }
12 \pmboxdrawbox{\strut0}
```

\pmboxdrawrulewidth

```
13 \newcommand*{\pmboxdrawrulewidth}[1]{%
14   \def\pmbd@rulewidth{#1}%
15 }
16 \pmboxdrawrulewidth{.1\width}
```

\pmboxdrawdoublerulesep

```
17 \newcommand*{\pmboxdrawdoublerulesep}[1]{%
18   \def\pmbd@doublerulesep{#1}%
19 }
20 \pmboxdrawdoublerulesep{.25\width}
```

2.4 Block elements

```
21 \def\pmbd@begin{%
22   \begingroup
23   \setbox\z@\hbox{\pmbd@box}%
24   \leavevmode
25   \setbox\tw@\hb@xt@\wd\z@\bgroup
26 }
27 \def\pmbd@end{%
28   \egroup
29   \ht\tw@\ht\z@
30   \dp\tw@\dp\z@
```

```
  \box\tw@
  \endgroup
}
```

2.4.1 U+2580

UPPER HALF BLOCK

```
\DeclareTextCommandDefault{\textupblock}{%
  \pmbd@begin
    \dimen@-\ht\z@
    \advance\dimen@\dp\z@
    \vrule\@width\wd\z@\@depth.5\dimen@
  \pmbd@end
}
```

2.4.2 U+2584

LOWER HALF BLOCK

```
\DeclareTextCommandDefault{\textdnblock}{%
  \pmbd@begin
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \vrule\@width\wd\z@\@height.5\dimen@
  \pmbd@end
}
```

2.4.3 U+2588

FULL BLOCK

```
\DeclareTextCommandDefault{\textblock}{%
  \pmbd@begin
    \vrule\@width\wd\z@
  \pmbd@end
}
```

2.4.4 U+258C

LEFT HALF BLOCK

```
\DeclareTextCommandDefault{\textlfblock}{%
  \pmbd@begin
    \vrule\@width.5\wd\z@
    \hfill
  \pmbd@end
}
```

2.4.5 U+2590

RIGHT HALF BLOCK

```
\DeclareTextCommandDefault{\textrtblock}{%
  \pmbd@begin
    \hfill
    \vrule\@width.5\wd\z@
  \pmbd@end
}
```

2.4.6 U+2591

LIGHT SHADE

```
\DeclareTextCommandDefault{\textltshade}{%
  \pmbd@begin
    \@ifundefined{textcolor}{%
      \pmbd@colorwarning\textltshade
```

```
    }{%
      \textcolor[gray]{.75}%
    }{%
      \vrule\@width\wd\z@
    }%
  \pmbd@end
}
```

2.4.7 U+2592

MEDIUM SHADE

```
\DeclareTextCommandDefault{\textshade}{%
  \pmbd@begin
    \@ifundefined{textcolor}{%
      \pmbd@colorwarning\textshade
    }{%
      \textcolor[gray]{.5}%
    }{%
      \vrule\@width\wd\z@
    }%
  \pmbd@end
}
```

2.4.8 U+2593

DARK SHADE

```
\DeclareTextCommandDefault{\textdkshade}{%
  \pmbd@begin
    \@ifundefined{textcolor}{%
      \pmbd@colorwarning\textdkshade
    }{%
      \textcolor[gray]{.25}%
    }{%
      \vrule\@width\wd\z@
    }%
  \pmbd@end
}
```

2.4.9 Color warning

\pmbd@colorwarning

```
\def\pmbd@colorwarning#1{%
  \PackageWarning{pmboxdraw}{%
    \string#1\space requires package \string‘color\string’\MessageBreak
  }%
% \PackageWarningNoLine{pmboxdraw}{%
%   Package \string‘color\string’ is required for\MessageBreak
%   \string\textltshade, \string\textshade, and \string\textdkshade
% }%
% \global\let\pmbd@colorwarning\@secondoftwo
  \@firstofone
}
```

2.5 Box drawing, light single lines

\pmbd@beginA

```
\def\pmbd@beginA{%
  \pmbd@begin
  \def\width{\wd\z@}%
  \def\height{\ht\z@}%
  \def\depth{\dp\z@}%
```

```
  \setlength{\dimen@}{\pmbd@rulewidth}%
  \edef\pmbd@rulewidth{\number\dimen@ sp}%
}
```

2.5.1 U+2500

BOX DRAWINGS LIGHT HORIZONTAL

```
\DeclareTextCommandDefault{\textSFx}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
  \pmbd@end
}
```

2.5.2 U+2502

BOX DRAWINGS LIGHT VERTICAL

```
\DeclareTextCommandDefault{\textSFxi}{%
  \pmbd@beginA
    \hss
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.5.3 U+250C

BOX DRAWINGS LIGHT DOWN AND RIGHT

```
\DeclareTextCommandDefault{\textSFi}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width\pmbd@rulewidth\@height.5\dimen@\@depth\dp\z@
        \hss
      }%
    }%
    \hfill
    \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
  \pmbd@end
}
```

2.5.4 U+2510

BOX DRAWINGS LIGHT DOWN AND LEFT

```
\DeclareTextCommandDefault{\textSFiii}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
```

```
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width\pmbd@rulewidth\@height.5\dimen@\@depth\dp\z@
        \hss
      }%
    }%
    \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    \hfill
  \pmbd@end
}
```

2.5.5 U+2514

BOX DRAWINGS LIGHT UP AND RIGHT

```
\DeclareTextCommandDefault{\textSFii}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
        \hss
      }%
    }%
    \hfill
    \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
  \pmbd@end
}
```

2.5.6 U+2518

BOX DRAWINGS LIGHT UP AND LEFT

```
\DeclareTextCommandDefault{\textSFiv}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
        \hss
      }%
    }%
    \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    \hfill
  \pmbd@end
}
```

2.5.7 U+251C

BOX DRAWINGS LIGHT VERTICAL AND RIGHT

```
\DeclareTextCommandDefault{\textSFviii}{%
  \pmbd@beginA
    \dimen@\ht\z@
```

```
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth\dp\z@
        \hss
      }%
    }%
    \hfill
    \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
  \pmbd@end
}
```

2.5.8 U+2524

BOX DRAWINGS LIGHT VERTICAL AND LEFT

```
\DeclareTextCommandDefault{\textSFix}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth\dp\z@
        \hss
      }%
    }%
    \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    \hfill
  \pmbd@end
}
```

2.5.9 U+252C

BOX DRAWINGS LIGHT DOWN AND HORIZONTAL

```
\DeclareTextCommandDefault{\textSFvi}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.5.10 U+2534

BOX DRAWINGS LIGHT UP AND HORIZONTAL

```
\DeclareTextCommandDefault{\textSFvii}{%
  \pmbd@beginA
```

```
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.5.11 U+253C

BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL

```
\DeclareTextCommandDefault{\textSFv}{%
  \pmbd@beginA
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6 Box drawing, double lines

\pmbd@beginB

```
\def\pmbd@beginB{%
  \pmbd@beginA
  \setlength{\dimen@}{\pmbd@doublerulesep}%
  \edef\pmbd@doublesepH{\number\dimen@ sp}%
}
```

\pmbd@beginC

```
\def\pmbd@beginC{%
  \pmbd@beginB
  \advance\dimen@\pmbd@rulewidth
  \edef\pmbd@doublesepV{\number\dimen@ sp}%
}
```

2.6.1 U+2550

BOX DRAWINGS DOUBLE HORIZONTAL

```
\DeclareTextCommandDefault{\textSFxliii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
```

```
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
  \pmbd@end
}
```

2.6.2 U+2551

BOX DRAWINGS DOUBLE VERTICAL

```
\DeclareTextCommandDefault{\textSFxxiv}{%
  \pmbd@beginB
    \hss
    \vrule\@width\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.3 U+2552

BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE

```
\DeclareTextCommandDefault{\textSFli}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \kern.5\wd\z@
      \advance\dimen@-\pmbd@doublesepV
      \advance\dimen\tw@-\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@\pmbd@doublesepV
    \advance\dimen\tw@\pmbd@doublesepV
    \rlap{%
      \kern.5\wd\z@
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.4 U+2553

BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE

```
\DeclareTextCommandDefault{\textSFlii}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \dimen4 \wd\z@
```

```
      \advance\dimen4 \pmbd@doublesepH
      \hb@xt@\wd\z@{%
        \hfill
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.5 U+2554

BOX DRAWINGS DOUBLE DOWN AND RIGHT

```
\DeclareTextCommandDefault{\textSFxxxix}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \advance\dimen4 \pmbd@doublesepH
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        }%
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width\pmbd@rulewidth\@height.5\dimen@\@depth\dp\z@
          \kern\pmbd@doublesepH
          \kern\pmbd@rulewidth
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \advance\dimen4 -\pmbd@doublesepH
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \kern\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.6 U+2555

BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE

```
\DeclareTextCommandDefault{\textSFxxii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@-\pmbd@doublesepV
      \advance\dimen\tw@-\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@\pmbd@doublesepV
    \advance\dimen\tw@\pmbd@doublesepV
    \rlap{%
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.7 U+2556

BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE

```
\DeclareTextCommandDefault{\textSFxxi}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \dimen4 \wd\z@
      \advance\dimen4 \pmbd@doublesepH
      \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.8 U+2557

BOX DRAWINGS DOUBLE DOWN AND LEFT

```
\DeclareTextCommandDefault{\textSFxxv}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \begingroup
      \advance\dimen@\pmbd@doublesepV
```

```
      \advance\dimen\tw@\pmbd@doublesepV
      \advance\dimen4 \pmbd@doublesepH
      \rlap{%
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \kern\pmbd@rulewidth
          \kern\pmbd@doublesepH
          \vrule\@width\pmbd@rulewidth\@height.5\dimen@\@depth\dp\z@
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \advance\dimen4 -\pmbd@doublesepH
    \rlap{%
      \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \kern\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.9 U+2558

BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE

```
\DeclareTextCommandDefault{\textSFl}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \kern.5\wd\z@
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
      \kern.5\wd\z@
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.10 U+2559

BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE

```
\DeclareTextCommandDefault{\textSFxlix}{%
  \pmbd@beginB
```

```
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \dimen4 \wd\z@
      \advance\dimen4 \pmbd@doublesepH
      \hb@xt@\wd\z@{%
        \hfill
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.11 U+255A

BOX DRAWINGS DOUBLE UP AND RIGHT

```
\DeclareTextCommandDefault{\textSFxxxviii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \advance\dimen4 -\pmbd@doublesepH
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        }%
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \kern\pmbd@rulewidth
          \kern\pmbd@doublesepH
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \advance\dimen4 \pmbd@doublesepH
    \rlap{%
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
```

```
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \kern\pmbd@doublesepH
    \kern\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.12 U+255B

BOX DRAWINGS UP SINGLE AND LEFT DOUBLE

```
\DeclareTextCommandDefault{\textSFxxviii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.13 U+255C

BOX DRAWINGS UP DOUBLE AND LEFT SINGLE

```
\DeclareTextCommandDefault{\textSFxxvii}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \dimen4 \wd\z@
      \advance\dimen4 \pmbd@doublesepH
      \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.14 U+255D

BOX DRAWINGS DOUBLE UP AND LEFT

```
\DeclareTextCommandDefault{\textSFxxvi}{%
  \pmbd@beginC
    \dimen@\ht\z@
```

```
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \advance\dimen4 -\pmbd@doublesepH
      \rlap{%
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \kern\pmbd@doublesepH
          \kern\pmbd@rulewidth
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \advance\dimen4 \pmbd@doublesepH
    \rlap{%
      \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \kern\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.15 U+255E

BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE

```
\DeclareTextCommandDefault{\textSFxxxvi}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \kern.5\wd\z@
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \rlap{%
      \kern.5\wd\z@
      \advance\dimen@-\pmbd@doublesepV
      \advance\dimen\tw@-\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
```

```
}
```

2.6.16 U+255F

BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE

```
\DeclareTextCommandDefault{\textSFxxxvii}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \dimen4 \wd\z@
      \advance\dimen4 -\pmbd@doublesepH
      \hb@xt@\wd\z@{%
        \hfill
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.17 U+2560

BOX DRAWINGS DOUBLE VERTICAL AND RIGHT

```
\DeclareTextCommandDefault{\textSFxlii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \advance\dimen4 -\pmbd@doublesepH
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        }%
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \kern\pmbd@rulewidth
          \kern\pmbd@doublesepH
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
```

```
      \hb@xt@\wd\z@{%
        \hss
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.18 U+2561

BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE

```
\DeclareTextCommandDefault{\textSFxix}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \rlap{%
      \advance\dimen@-\pmbd@doublesepV
      \advance\dimen\tw@-\pmbd@doublesepV
      \vrule\@width.5\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.19 U+2562

BOX DRAWINGS VERTICAL DOUBLE AND LEFT SINGLE

```
\DeclareTextCommandDefault{\textSFxx}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \dimen4 \wd\z@
      \advance\dimen4 -\pmbd@doublesepH
      \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.20 U+2563

BOX DRAWINGS DOUBLE VERTICAL AND LEFT

```
\DeclareTextCommandDefault{\textSFxxiii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \advance\dimen4 -\pmbd@doublesepH
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \rlap{%
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \kern\pmbd@doublesepH
          \kern\pmbd@rulewidth
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
      \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.21 U+2564

BOX DRAWINGS DOWN SINGLE AND HORIZONTAL DOUBLE

```
\DeclareTextCommandDefault{\textSFxlvii}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
```

```
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.22 U+2565

BOX DRAWINGS DOWN DOUBLE AND HORIZONTAL SINGLE

```
\DeclareTextCommandDefault{\textSFxlviii}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.23 U+2566

BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL

```
\DeclareTextCommandDefault{\textSFxli}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \advance\dimen4 -\pmbd@doublesepH
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
      \hb@xt@\wd\z@{%
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        \hss
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

2.6.24 U+2567

BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE

```
\DeclareTextCommandDefault{\textSFxlv}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@-\pmbd@doublesepV
      \advance\dimen\tw@-\pmbd@doublesepV
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \advance\dimen@\pmbd@doublesepV
    \advance\dimen\tw@\pmbd@doublesepV
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.25 U+2568

BOX DRAWINGS UP DOUBLE AND HORIZONTAL SINGLE

```
\DeclareTextCommandDefault{\textSFxlvi}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@depth-.5\dimen\tw@
    \hss
  \pmbd@end
}
```

2.6.26 U+2569

BOX DRAWINGS DOUBLE UP AND HORIZONTAL

```
\DeclareTextCommandDefault{\textSFxl}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \advance\dimen4 -\pmbd@doublesepH
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
```

```
      \rlap{%
        \hb@xt@\wd\z@{%
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
          \hss
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        }%
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \kern\pmbd@doublesepH
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
  \pmbd@end
}
```

2.6.27 U+256A

BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE

```
\DeclareTextCommandDefault{\textSFliv}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \rlap{%
      \advance\dimen@-\pmbd@doublesepV
      \advance\dimen\tw@-\pmbd@doublesepV
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
    \hss
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.28 U+256B

BOX DRAWINGS VERTICAL DOUBLE AND HORIZONTAL SINGLE

```
\DeclareTextCommandDefault{\textSFliii}{%
  \pmbd@beginB
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \rlap{%
      \vrule\@width\wd\z@\@height.5\dimen@\@depth-.5\dimen\tw@
    }%
```

```
    \hss
    \vrule\@width\pmbd@rulewidth
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth
    \hss
  \pmbd@end
}
```

2.6.29 U+256C

BOX DRAWINGS DOUBLE VERTICAL AND HORIZONTAL

```
\DeclareTextCommandDefault{\textSFxliv}{%
  \pmbd@beginC
    \dimen@\ht\z@
    \advance\dimen@-\dp\z@
    \dimen\tw@\dimen@
    \advance\dimen@\pmbd@rulewidth
    \advance\dimen\tw@-\pmbd@rulewidth
    \dimen4 \wd\z@
    \advance\dimen4 -\pmbd@doublesepH
    \begingroup
      \advance\dimen@\pmbd@doublesepV
      \advance\dimen\tw@\pmbd@doublesepV
      \rlap{%
        \hb@xt@\wd\z@{%
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
          \hss
          \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        }%
      }%
      \rlap{%
        \hb@xt@\wd\z@{%
          \hss
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \kern\pmbd@doublesepH
          \vrule\@width\pmbd@rulewidth\@height\ht\z@\@depth-.5\dimen\tw@
          \hss
        }%
      }%
    \endgroup
    \advance\dimen@-\pmbd@doublesepV
    \advance\dimen\tw@-\pmbd@doublesepV
    \rlap{%
      \hb@xt@\wd\z@{%
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
        \hss
        \vrule\@width.5\dimen4 \@height.5\dimen@\@depth-.5\dimen\tw@
      }%
    }%
    \hss
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \kern\pmbd@doublesepH
    \vrule\@width\pmbd@rulewidth\@height.5\dimen@
    \hss
  \pmbd@end
}
```

⟨/package⟩

2.7 Unicode support file

```
⟨*utf8⟩
\ProvidesFile{pmboxdrawenc.dfu}%
```

```
  [2006/05/03 v1.0 UTF-8 support for box drawing characters]%
\DeclareUnicodeCharacter{2500}{\textSFx}
\DeclareUnicodeCharacter{2502}{\textSFxi}
\DeclareUnicodeCharacter{250C}{\textSFi}
\DeclareUnicodeCharacter{2510}{\textSFiii}
\DeclareUnicodeCharacter{2514}{\textSFii}
\DeclareUnicodeCharacter{2518}{\textSFiv}
\DeclareUnicodeCharacter{251C}{\textSFviii}
\DeclareUnicodeCharacter{2524}{\textSFix}
\DeclareUnicodeCharacter{252C}{\textSFvi}
\DeclareUnicodeCharacter{2534}{\textSFvii}
\DeclareUnicodeCharacter{253C}{\textSFv}
\DeclareUnicodeCharacter{2550}{\textSFxliii}
\DeclareUnicodeCharacter{2551}{\textSFxxiv}
\DeclareUnicodeCharacter{2552}{\textSFli}
\DeclareUnicodeCharacter{2553}{\textSFlii}
\DeclareUnicodeCharacter{2554}{\textSFxxxix}
\DeclareUnicodeCharacter{2555}{\textSFxxii}
\DeclareUnicodeCharacter{2556}{\textSFxxi}
\DeclareUnicodeCharacter{2557}{\textSFxxv}
\DeclareUnicodeCharacter{2558}{\textSFl}
\DeclareUnicodeCharacter{2559}{\textSFxlix}
\DeclareUnicodeCharacter{255A}{\textSFxxxviii}
\DeclareUnicodeCharacter{255B}{\textSFxxviii}
\DeclareUnicodeCharacter{255C}{\textSFxxvii}
\DeclareUnicodeCharacter{255D}{\textSFxxvi}
\DeclareUnicodeCharacter{255E}{\textSFxxxvi}
\DeclareUnicodeCharacter{255F}{\textSFxxxvii}
\DeclareUnicodeCharacter{2560}{\textSFxlii}
\DeclareUnicodeCharacter{2561}{\textSFxix}
\DeclareUnicodeCharacter{2562}{\textSFxx}
\DeclareUnicodeCharacter{2563}{\textSFxxiii}
\DeclareUnicodeCharacter{2564}{\textSFxlvii}
\DeclareUnicodeCharacter{2565}{\textSFxlviii}
\DeclareUnicodeCharacter{2566}{\textSFxli}
\DeclareUnicodeCharacter{2567}{\textSFxlv}
\DeclareUnicodeCharacter{2568}{\textSFxlvi}
\DeclareUnicodeCharacter{2569}{\textSFxl}
\DeclareUnicodeCharacter{256A}{\textSFliv}
\DeclareUnicodeCharacter{256B}{\textSFliii}
\DeclareUnicodeCharacter{256C}{\textSFxliv}
\DeclareUnicodeCharacter{2580}{\textupblock}
\DeclareUnicodeCharacter{2584}{\textdnblock}
\DeclareUnicodeCharacter{2588}{\textblock}
\DeclareUnicodeCharacter{258C}{\textlfblock}
\DeclareUnicodeCharacter{2590}{\textrtblock}
\DeclareUnicodeCharacter{2591}{\textltshade}
\DeclareUnicodeCharacter{2592}{\textshade}
\DeclareUnicodeCharacter{2593}{\textdkshade}
```

⟨/utf8⟩

3 Installation

3.1 Download

Package. This package is available on CTAN[1]:

CTAN:macros/latex/contrib/oberdiek/pmboxdraw.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/pmboxdraw.pdf Documentation.

[1] ftp://ftp.ctan.org/tex-archive/

Bundle. All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with `texmf` in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package attachfile2 comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

3.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain-TEX:

```
tex pmboxdraw.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
pmboxdraw.sty     → tex/latex/oberdiek/pmboxdraw.sty
pmboxdrawenc.dfu → tex/latex/oberdiek/pmboxdrawenc.dfu
pmboxdraw.pdf     → doc/latex/oberdiek/pmboxdraw.pdf
pmboxdraw.dtx     → source/latex/oberdiek/pmboxdraw.dtx
```

If you have a `docstrip.cfg` that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

3.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

3.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk pmboxdraw.pdf unpack_files output .
```

Unpacking with LaTeX. The `.dtx` chooses its action depending on the format:

plain-TeX: Run docstrip and extract the files.

LaTeX: Generate the documentation.

If you insist on using LaTeX for docstrip (really, docstrip does not need LaTeX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{pmboxdraw.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfLaTeX:

```
pdflatex pmboxdraw.dtx
makeindex -s gind.ist pmboxdraw.idx
pdflatex pmboxdraw.dtx
makeindex -s gind.ist pmboxdraw.idx
pdflatex pmboxdraw.dtx
```

4 References

[1] Heiko Oberdiek, The inputenx Package (Enhanced input encoding handling), 2006/03/05 v1.0, ftp://ftp.ctan.org/tex-archive/macros/latex/contrib/oberdiek/inputenx.pdf.

[2] Adobe Systems Incorporated, Adobe Glyph List for New Fonts (AGLFN), version 1.5, 2005/09/18, http://partners.adobe.com/public/developer/en/opentype/aglfn13.txt.

[3] Unicode Inc., The Unicode Standard, Version 4.1, Box Drawing, Range: 2500–257F, 2005. http://www.unicode.org/charts/PDF/U2500.pdf

[4] Unicode Inc., The Unicode Standard, Version 4.1, Block Elements, Range: 2580–259F, 2005. http://www.unicode.org/charts/PDF/U2580.pdf

5 History

[2006/05/03 v1.0]

- First version.

6 Index

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