The hobsub package

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Abstract

Package hobsub implements the idea of loading several packages in one big collection package.

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^{*}Please report any issues at https://github.com/ho-tex/oberdiek/issues

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1 Documentation

In January 2011 the mailing list lualatex-dev discussed "quietening lualatex console output" [1]. Inspired from this, I implemented this package hobsub to load several packages in one file. The package is applied for two packages collections that are subsets of my package bundle oberdiek.

hobsub-generic is a collection of packages that can also be used with plain TEX.

hobsub-hyperref is a collection of packages that is used by package hyperref.

Package hobsub provides the macros that are used in the collection packages and might be used in other projects as well. But there are many caveats, some of them are discussed below.

The most serious problem is consistency. A package that is available as standalone package and is part of a collection might have different versions. Because my packages are organized in a bundle and should be installed and updated as bundle, the risk seems low to me. However, if a single package is updated manually, for example for testing, then it should be loaded before the collection that contains the package with an older version. In a collection, the package will not be loaded again if it is already loaded.

1.1 Usage

The collection packages hobsub-generic and hobsub-hyperref are loaded as usual:

```
\label{eq:lambda} $$ \space{2mm} \align{ \begin{tabular}{ll} $ \align{ \end{tabular} } $ \align{ \begin{tabular}{ll} $ \align{ \end{tabular} } $ \align{ \begin{tabular}{ll} $ \align{ \end{tabular} } $ \
```

or

\usepackage{hobsub-hyperref}

Of course, both \usepackage or \RequirePackage can be used.

If you need requirements on the version date of a package inside a collection, then specify them afterwards, for example:

```
\usepackage{hobsub-generic}
\usepackage{ltxcmds}[2010/12/04]% \ltx@ifblank is needed
```

Also it is not garanteed that a package will be always part of a collection. Therefore it does not harm, to make the requirements explicite *after* a collection is loaded, see the previous example. LaTeX knows that a package is already loaded and does not load it again.

1.2 Supported features

- **No reloads:** If a package is already loaded then it is not reloaded again if it is part of a collection package.
- **\listfiles:** Each package that is loaded in a collection is also added to the output of **\listfiles**.
- \@currname, \@currext are updated, they are used by I₄TEX's \ProvidesPackage.
- \AtEndOfPackage: IATEX's hook mechanism that is used for \AtEndOfPackage is supported. However none of the packages in the collections are using \AtEndOfPackage, therefore this feature is completely untested.

1.3 Common limitations

\endinput: Often a package is using \endinput, either added by docstrip, or to stop package loading at an earlier time. Therefore \endinput must be catched during package loading to prevent that the collection package is closed too early before reading all packages it contains.

This redefinition of \endinput fails if the package loads other files that contain \endinput. To some degree it could be catched by redefining macros that load files. But this will not work for the primitive \input.

Options: LaTeX's package options are not supported. Therefore the packages that are put in a collection must not support options.

Hook packages: Some packages and classes provides hooks for packages, see packages scrlfile, filehook or class memoir. These hooks are not supported for embedded packages inside a collection package. Because of the problem with \endinput, these hooks are not supported. The hooks might contain code that loads other files that execute \endinput.

1.4 Package hobsub-generic

Collection 'generic' contains some of the plain TEX compatible packages of my bundle, see table 1. It adds the following restrictions to any package that is part of this collection:

- Generic formats: The following formats must be supported: LATEX, plain TEX and even iniTEX. This applies to the collection package hobsub-generic the same way.
- **Prefixed macros:** Any package of this collection should only define macros with prefixed names to avoid name clashes. Resources like registers must not be allocated and other global states should not be changed except for added macro definitions.

Thus the package hobsub-generic can also preloaded in the format file with iniTeX.

1.5 Package hobsub-hyperref

Collection 'hyperref' contains additional packages that are used by package hyperref and that does not fit in collection 'generic', see tabletab:hyperref. The latter collection package hobsub-generic is loaded via a conventional \RequirePackage.

Because most of the packages in the collection 'hyperref' needs LATEX, the collection requires LATEX.

Table 1: Overview hobsub-generic

Package	Release	Dependencies
infwarerr	2010/04/08 v1.3	
ltxcmds	2011/11/09 v1.22	
ifluatex	2010/03/01 v1.3	
ifvtex	2010/03/01 v1.5	
intcalc	2007/09/27 v1.1	
ifpdf	2011/01/30 v2.3	ifluatex
etexcmds	2011/02/16 v1.5	
kvsetkeys	2012/04/25 v1.16	
kvdefinekeys	2011/04/07 v1.3	
luatex-loader	2010/03/09 v0.4	
pdftexcmds	2011/11/29 v0.20	ifluatex, ifpdf, infwarerr, ltxcmds, luatex-loader
pdfescape	2011/11/25 v1.13	Itxcmds, pdftexcmds
bigintcalc	2012/04/08 v1.3	pdftexcmds
bitset	2011/01/30 v1.1	bigintcalc, infwarerr, intcalc
uniquecounter	$2011/01/30~{\rm v}1.2$	bigintcalc, infwarerr

Table 2: Overview hobsub-hyperref

Package	Release	Dependencies
letltxmacro	2010/09/02 v1.4	
hopatch	2016/05/16 v1.2	
xcolor-patch	2011/01/30 v1.7	
atveryend	2011/06/30 v1.8	
atbegshi	2011/10/05 v1.16	ifpdf, infwarerr, ltxcmds
refcount	2011/10/16 v3.4	infwarerr, Itxcmds
hycolor	2011/01/30 v1.7	xcolor-patch

1.6 Package hobsub

This section is for advanced users that might want to build a collection package. Then it can be done by using hobsub:

...
\RequirePackage{hobsub}[2016/05/16]
...
\hobsub@StartPackage{foo1}
... package code of foo1.sty ...
\endinput
<hobsub>
\hobsub@StopPackage
\hobsub@StartPackage{bar2}
... package code of bar2.sty ...
\endinput
<hobsub>
\hobsub>
\hobsub@StopPackage ...

But be aware of the caveats and limitations, see above. Only quite a small portion of the packages can be embedded like this.

2 Implementation

2.1 Reload check and package identification

2.1.1 Package hobsub

```
1 (*package)
Reload check, especially if the package is not used with LATEX.
 2 \begingroup\catcode61\catcode48\catcode32=10\relax%
 3 \catcode13=5 % ^^M
 4 \endlinechar=13 %
 5 \catcode35=6 % #
 6 \catcode39=12 % '
 7 \catcode44=12 \%,
 8 \catcode45=12 % -
 9 \catcode46=12 % .
 10 \catcode58=12 %:
 11 \catcode64=11 % @
 12 \catcode123=1 % {
 13 \catcode125=2 % }
    \verb|\expandafter\expandafter\x\csname| ver@hobsub.sty\\endcsname|
 14
    \ifx\x\relax % plain-TeX, first loading
 15
 16
      \def\empty{}%
 17
      \ifx\x\empty % LaTeX, first loading,
 18
       % variable is initialized, but \ProvidesPackage not yet seen
 19
 20
       \expandafter\ifx\csname PackageInfo\endcsname\relax
 21
        \def\x#1#2{\%}
 22
          \immediate\write-1{Package #1 Info: #2.}%
 23
        ጉ%
 24
 25
       \else
        \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
 26
 27
       \x{hobsub}{The package is already loaded}%
 28
 29
       \aftergroup\endinput
 30
      \fi
31
    \fi
32 \endgroup \%
Package identification:
 33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34 \catcode13=5 % ^^M
35 \endlinechar=13 %
36 \catcode35=6 % #
37 \catcode39=12 % '
38 \catcode40=12 % (
39 \catcode41=12 %)
 40 \catcode44=12 %,
41 \catcode45=12 % -
 42 \catcode46=12 % .
 43 \catcode47=12 % /
 44 \catcode58=12 %:
 45 \catcode64=11 % @
 46 \catcode91=12 % [
 47 \catcode93=12 % ]
 48 \catcode123=1 % {
    \catcode125=2 % }
 49
    \expandafter\ifx\csname ProvidesPackage\endcsname\relax
 50
      \def \x #1#2#3[#4]{\endgroup}
 51
       \immediate\write-1{Package: #3 #4}%
 52
       \xdef#1{#4}%
 53
     }%
```

```
\else
  55
              \def\x#1#2[#3]{\endgroup}
  56
  57
                  #2[{#3}]%
                  \inf #1\Qundefined
  58
                     \xdef#1{#3}%
  59
  60
                  \fi
  61
                  \int fx#1\relax
  62
                     \xdef#1{#3}%
                  \fi
  63
              }%
  64
  65 \fi
  66 \expandafter\x\csname ver@hobsub.sty\endcsname
  67 \ProvidesPackage{hobsub}%
  68 [2016/05/16 v1.14 Construct package bundles (HO)]%
  69 (/package)
2.1.2 Package hobsub-generic
  70 (*generic)
Reload check, especially if the package is not used with LATEX.
  71 \begingroup\catcode61\catcode48\catcode32=10\relax%
          \catcode13=5 % ^^M
           \endlinechar=13 %
  73
  74
          \catcode35=6 % #
  75
          \catcode39=12 % '
  76
          \colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\col
          \color=12 \% -
  77
  78 \catcode46=12 % .
  79 \catcode58=12 %:
  80 \catcode64=11 % @
  81 \catcode123=1 % {
  82 \catcode125=2 % }
  83 \expandafter\let\expandafter\x\csname ver@hobsub-generic.sty\endcsname
          \ifx\x\relax % plain-TeX, first loading
  84
  85
  86
              \def\empty{}%
              \ifx\x\empty % LaTeX, first loading,
  87
                 \% variable is initialized, but \ProvidesPackage not yet seen
  88
  89
                  \expandafter\ifx\csname PackageInfo\endcsname\relax
  90
                     \def\x#1#2{\%}
  91
  92
                        \immediate\write-1{Package #1 Info: #2.}%
  93
  94
  95
                     \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
  96
                  \x{hobsub-generic}{The package is already loaded}\%
  97
  98
                  \aftergroup\endinput
              \fi
  99
          \fi
100
101 \endgroup%
Package identification:
102 \begingroup\catcode61\catcode48\catcode32=10\relax%
103 \catcode13=5 % ^^M
          \endlinechar=13 %
104
105 \catcode35=6 % #
106 \catcode39=12 % '
          \catcode40=12 % (
107
          \catcode41=12 % )
109 \catcode44=12 \%,
110 \catcode45=12 % -
111 \catcode46=12 % .
```

```
112 \catcode47=12 % /
    \catcode58=12 % :
113
    \catcode64=11 % @
114
    \catcode91=12 % [
115
    \catcode93=12 % ]
116
117
    \catcode123=1 % {
118
    \catcode125=2 % }
119
    \expandafter\ifx\csname ProvidesPackage\endcsname\relax
     120
       121
       \xdef#1{#4}%
122
     }%
123
    \else
124
     \def\x#1#2[#3]{\endgroup}
125
       #2[{#3}]%
126
127
       \ifx#1\@undefined
128
        \xdef#1{#3}%
129
       \fi
       \inf #1 \operatorname{ln}
130
        \xdef#1{#3}%
131
       \fi
132
     }%
133
134
135 \expandafter\x\csname ver@hobsub-generic.sty\endcsname
136 \ProvidesPackage{hobsub-generic}%
137 [2016/05/16 v1.14 Bundle oberdiek, subset generic (HO)]%
138 (/generic)
2.1.3 Package hobsub-hyperref
139 (*hyperref)
Reload check, especially if the package is not used with LATEX.
140 \begingroup\catcode61\catcode48\catcode32=10\relax%
    \catcode13=5 % ^^M
142 \endlinechar=13 %
143 \catcode35=6 % #
144 \catcode39=12 % '
145 \catcode44=12 \%,
146 \catcode45=12 % -
    \catcode46=12 % .
147
    \catcode58=12 % :
148
    \catcode64=11 % @
149
    \catcode123=1 % {
150
    \catcode125=2 % }
    \expandafter\let\expandafter\x\csname ver@hobsub-hyperref.sty\endcsname
153
    \ifx\x\relax % plain-TeX, first loading
154
155
     \def\empty{}%
     \ifx\x\empty % LaTeX, first loading,
156
       \% variable is initialized, but \ProvidesPackage not yet seen
157
     \else
158
       \expandafter\ifx\csname PackageInfo\endcsname\relax
159
160
        \def\x#1#2{\%}
         \immediate\write-1{Package #1 Info: #2.}%
161
162
163
164
        165
166
       \x{hobsub-hyperref}{The package is already loaded}%
       \aftergroup\endinput
167
168
     \fi
    \fi
169
170 \endgroup%
```

```
Package identification:
171 \begingroup\catcode61\catcode48\catcode32=10\relax%
                                 \catcode13=5 % ^^M
                                  \endlinechar=13 %
173
                                  \catcode35=6 % #
174
175
                                 \catcode39=12 % '
176
                                 \catcode40=12 % (
177
                                 \catcode41=12 % )
                                \colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\colone{1}\col
178
                                \catcode45=12 % -
179
180 \catcode46=12 % .
181 \catcode47=12 % /
182 \catcode58=12 %:
183 \catcode64=11 % @
184 \catcode91=12 % [
185 \catcode93=12 % ]
186 \catcode123=1 % {
                                \catcode125=2 % }
187
                                  \expandafter\ifx\csname ProvidesPackage\endcsname\relax
188
189
                                             \def\x#1#2#3[#4]{\endgroup}
                                                        \immediate\write-1{Package: #3 #4}%
190
                                                       \xdef#1{#4}%
191
192
                                           }%
193
                                  \else
                                            \def\x#1#2[#3]{\endgroup}
194
 195
                                                       #2[{#3}]%
 196
                                                       \ifx#1\@undefined
 197
                                                                 \xdef#1{#3}%
 198
                                                       \fi
                                                       \inf #1 \operatorname{ln}
199
                                                                 \xdef#1{#3}%
200
201
                                                       \fi
202
                                           }%
203 \fi
204 \expandafter\x\csname ver@hobsub-hyperref.sty\endcsname
205 \ProvidesPackage{hobsub-hyperref}%
206 [2016/05/16 v1.14 Bundle oberdiek, subset hyperref (HO)]%
207 (/hyperref)
 2.2
                                             Catcodes
208 (*package j generic j hyperref)
209 \begingroup\catcode61\catcode48\catcode32=10\relax%
210 \catcode13=5 % ^^M
211 \endlinechar=13 %
212 \catcode123=1 % {
213 \catcode125=2 % }
                                 \catcode64=11 % @
214
                                  \def\x{\endgroup
215
                                            \expandafter\edef\csname HOBsub@AtEnd\endcsname{%
216
217
                                                       \endlinechar=\the\endlinechar\relax
218
                                                       \catcode13=\the\catcode13\relax
                                                       \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
219
                                                       \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
220
                                                       \colored{catcode61=\locatcode61\relax}
221
222
                                                       \colored{catcode64} \to \colored{catcode64}
                                                       \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
223
                                                       \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
224
                                           }%
225
226 }%
227 \x\catcode61\catcode48\catcode32=10\relax%
228 \catcode13=5 % ^^M
```

229 \endlinechar=13 %

```
230 \catcode35=6 % #
                                                                    231 \catcode64=11 % @
                                                                    232 \catcode123=1 % {
                                                                    233 \catcode125=2 % }
                                                                    234 \def\TMP@EnsureCode#1#2{%
                                                                    235 \edef\HOBsub@AtEnd{%
                                                                    236
                                                                                 \HOBsub@AtEnd
                                                                    237
                                                                                 \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
                                                                    238 }%
                                                                    239 \catcode#1=#2\relax
                                                                    240 }
                                                                    241 \TMP@EnsureCode{39}{12}% '
                                                                    242 \TMP@EnsureCode{40}{12}% (
                                                                    243 \TMP@EnsureCode{41}{12}%)
                                                                    244 \TMP@EnsureCode\{45\}\{12\}\% -
                                                                    245 \TMP@EnsureCode\{46\}\{12\}\%.
                                                                    246 \TMP@EnsureCode{47}{12}% /
                                                                    247 \TMP@EnsureCode{58}{12}%:
                                                                    248 \TMP@EnsureCode\{60\}\{12\}\% <
                                                                    249 \TMP@EnsureCode{62}{12}% >
                                                                    250 \TMP@EnsureCode{96}{12}% `
                                                                    251 \edef\HOBsub@AtEnd{\HOBsub@AtEnd\noexpand\endinput}
                                                                    252 (/package j generic j hyperref)
                                                                                Package hobsub-hyperref loads hobsub-generic
                                                                    2.3
                                                                    253 (*hyperref)
                                                                    254 \NeedsTeXFormat{LaTeX2e}
                                                                    255 \RequirePackage{hobsub-generic}[2016/05/16]
                                                                    256 \langle \text{/hyperref} \rangle
                                                                    2.4 Preamble
                                                                    257 (*preamble)
                                                                    259 \expandafter\ifx\csname ver@hobsub.sty\endcsname\relax
                                                                    261 \expandafter\hobsub@GobbleRemainingPackage
                                                                    262 \fi
                                                                    263 \langle \text{preamble} \rangle
                                                                    264 (*package j preamble)
                \HOBsub@OrgEndinput
                                                                    265 \begingroup\expandafter\expandafter\expandafter\endgroup
                                                                    266 \expandafter\ifx\csname HOBsub@OrgEndinput\endcsname\relax
                                                                    267 \let\HOBsub@OrgEndinput\endinput
                                                                    268 \fi
obsub@GobbleRemainingPackage
                                                                    269 \def\hobsub@GobbleRemainingPackage{%
                                                                    270 \begingroup
                                                                    271 \catcode92=14 % backslash: comment
                                                                    272 \catcode32=14 % space: comment
                                                                    273 \catcode35=14 % hash: comment
                                                                    274 \catcode123=14 % left brace: comment
                                                                    275 \catcode125=14 % right brace: comment
                                                                    276 \catcode60=3 % less: math
                                                                    277 \catcode62=4 % greater: align
                                                                    278 \endlinechar=-1 %
                                                                    279 \HOBsub@GobbleRemainingPackage
                                                                    280 }
```

DBsub@GobbleRemainingPackage

```
281 \catcode60=3 % less: dollar
                                                 282 \catcode62=4 % greater: align
                                                283 \long\def\HOBsub@GobbleRemainingPackage#1<hobsub>{%}
                                                285 }
                                                286 \catcode60=12 % less: other
                                                287 \catcode62=12 % greater: other
  \hobsub@StartPackage
                                                 288 \def\hobsub@StartPackage#1{%
                                                          \begingroup\expandafter\expandafter\expandafter\endgroup
                                                 290
                                                          \expandafter\ifx\csname ver@#1.sty\endcsname\relax
                                                291
                                                             \let\HOBsub@OrgCurrName\@currname
                                                292
                                                             \let\HOBsub@OrgCurrExt\@currext
                                                293
                                                             \csname @pushfilename\endcsname
                                                             \def\@currname{#1}%
                                                294
                                                             \def\@currext{sty}%
                                                295
                                                             \verb|\expandafter\def\csname| @currname. \\ @currext-h@@k\endcsname{} % \\
                                                296
                                                             \let\endinput\hobsub@GobbleRemainingPackage
                                                297
                                                298
                                                             \def\hobsub@StopPackage{%
                                                                \let\hobsub@StopPackage\relax
                                                299
                                                                \HOBsub@StopPackage
                                                300
                                                301 %
                                                                  \hobsub@Info{hobsub}{Package `#1' loaded}%
                                                302
                                                             ት%
                                                303
                                                             \hobsub@AddToFileList{#1.sty}%
                                                304
                                                          \else
                                                             305
                                                             \let\hobsub@StopPackage\relax
                                                306
                                                              \expandafter\hobsub@GobbleRemainingPackage
                                                307
                                                308
                                                          \fi
                                                309 }
   \hobsub@StopPackage
                                                310 \let\hobsub@StopPackage\relax
                   \hobsub@Info
                                                311 \def\hobsub@Info#1#2{%
                                                          \begingroup\expandafter\expandafter\expandafter\endgroup
                                                313
                                                          \expandafter\ifx\csname @PackageInfoNoLine\endcsname\relax
                                                314
                                                             \immediate\write-1{Package #1 Info: #2.}%
                                                315
                                                             \let\hobsub@Info\@PackageInfoNoLine
                                                316
                                                             \hobsub@Info{#1}{#2}%
                                                317
                                                          \fi
                                                318
                                                319 }
\HOBsub@StopPackage
                                                320 \def\HOBsub@StopPackage{%
                                                321 \csname\@currname.\@currext-h@@k\endcsname
                                                322 \let\endinput\HOBsub@OrgEndinput
                                                         \csname @popfilename\endcsname
                                                323
                                                          \let\@currname\HOBsub@OrgCurrName
                                                324
                                                          \let\@currext\HOBsub@OrgCurrExt
                                                325
                                                326 }
\hobsub@AddToFileList
                                                327 \verb|\begingroup\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafte
                                                328 \expandafter\ifx\csname @addtofilelist\endcsname\relax
                                                329
                                                         \def\hobsub@AddToFileList#1{}%
                                                330 \else
                                                          \def\hobsub@AddToFileList#1{%
                                                331
                                                             \@addtofilelist{#1}%
```

```
333 }%
334 \fi
335 </package j preamble>
```

2.5 End of preamble for subset packages

Add the end marker for possible skipping of previous macros, if package hobsub was already loaded.

```
336 (*preamble)
337 \hobsub@GobbleRemainingPackage
338 <hobsub>
```

All macros of package hobsub are now available. Now we officially load the package hobsub inline for proper package identification.

```
339 \hobsub@StartPackage{hobsub}%
340 \begingroup\expandafter\expandafter\expandafter\endgroup
341 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
    \immediate\write-1{%
      Package: hobsub 2016/05/16 v1.14 Construct package bundles (HO)%
343
344 }%
345 \else
346 \ProvidesPackage{hobsub}%
347 [2016/05/16 v1.14 Construct package bundles (HO)]%
348 \fi
349 (/preamble)
350 (*post j preamble)
351 \endinput
352 <hobsub>
353 \hobsub@StopPackage
354 (/post j preamble)
```

2.6 Package list

```
355 (infwarerr)\hobsub@StartPackage{infwarerr}
356 (ltxcmds)\hobsub@StartPackage{ltxcmds}
357 (ifluatex)\hobsub@StartPackage{ifluatex}
358 (ifvtex) \rightarrow GStartPackage{ifvtex}
359 (intcalc)\hobsub@StartPackage{intcalc}
360 (ifpdf)\hobsub@StartPackage{ifpdf}
361 \(\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\righ
362 (kvsetkeys)\hobsub@StartPackage{kvsetkeys}
363 (kvdefinekeys)\hobsub@StartPackage{kvdefinekeys}
364 (*luatex-loader)
365 \ifluatex
366 \else
367
                     \expandafter\hobsub@GobbleRemainingPackage
368 \fi
369 \hobsub@StartPackage{luatex-loader}
370 (/luatex-loader)
371 \(\rho\)\\hobsub@StartPackage{\rhodftexcmds}\\
372 \(\rho\) \(\rho\)
373 (bigintcalc)\hobsub@StartPackage{bigintcalc}
374 \(\footnote{bitset}\\hobsub@StartPackage{bitset}\)
375 (uniquecounter)\hobsub@StartPackage{uniquecounter}
376 (letltxmacro)\hobsub@StartPackage{letltxmacro}
377 (hopatch)\hobsub@StartPackage{hopatch}
378 (xcolor-patch)\hobsub@StartPackage{xcolor-patch}
379 (atveryend)\hobsub@StartPackage{atveryend}
380 (atbegshi)\hobsub@StartPackage{atbegshi}
381 \(\refcount\)\\hobsub@StartPackage{refcount}
382 (hycolor)\hobsub@StartPackage{hycolor}
```

2.7 End of packages

 $383 \langle package j atend \rangle \HOBsub@AtEnd\%$

3 Test

3.1 Catcode checks for loading

```
384 (*test1)
385 \catcode^{=1 \%}
386 \catcode^{}=2 \%
387 \catcode`\#=6 %
388 \catcode`\@=11 %
389 \expandafter\ifx\csname count@\endcsname\relax
390 \countdef\count@=255 \%
391 \fi
392 \expandafter\ifx\csname @gobble\endcsname\relax
393 \leq \sqrt{\frac{1}{2}}
394 \fi
395 \expandafter\ifx\csname @firstofone\endcsname\relax
396 \log \left(\frac{\#1}{\#1}\right)
397 \fi
398 \expandafter\ifx\csname loop\endcsname\relax
399 \expandafter\@firstofone
400 \else
401 \expandafter\@gobble
402\ \backslash \mathrm{fi}
403 {%
            \def\loop#1\repeat{%
404
                 \def\body{#1}%
405
                \iterate
406
407 }%
408
             \def\iterate{%
409
                \body
                    \let\next\iterate
410
                 \else
411
                    \let\next\relax
412
                 \fi
413
                 \next
414
415 }%
416
             \left| \right| 
417 }%
418 \def\RestoreCatcodes{}
419 \count@=0 %
420 \loop
           \edef\RestoreCatcodes{%
421
                 \RestoreCatcodes
422
                 \verb|\catcode| the \catcode| count@=\catcode| count@=\catc
423
424 }%
425 \ifnum\count@<255 %
426 \advance\count@ 1 %
427 \repeat
428
429 \def\RangeCatcodeInvalid#1#2{%
430 \count@=#1\relax
431 \loop
             \catcode\count@=15 %
432
433 \ifnum\count@<#2\relax
               \advance\count@ 1 %
434
435
            \repeat
436 }
437 \def\RangeCatcodeCheck#1#2#3{%
438 \count@=#1\relax
```

```
439
    loop
440
      \ifnum#3=\catcode\count@
      \else
441
       \errmessage{%
442
        Character \the\count@\space
443
444
        with wrong catcode \the\catcode\count@\space
445
        instead of \number#3%
446
       }%
447
      ۱fi
    \ \c)
448
     \advance\count@ 1 %
449
450
    \repeat
451 }
452 \ensuremath{\mbox{def\space}}
453 \expandafter\ifx\csname LoadCommand\endcsname\relax
    \def\LoadCommand{\input hobsub.sty\relax}%
455 \fi
456 \def\Test{%
    \RangeCatcodeInvalid{0}{47}%
457
458
    \RangeCatcodeInvalid{58}{64}%
459
    \RangeCatcodeInvalid{91}{96}%
    \RangeCatcodeInvalid{123}{255}%
460
    \catcode`\@=12 %
461
    \color=0 \%
462
    \catcode`\%=14 %
463
    \LoadCommand
465
    \RangeCatcodeCheck{0}{36}{15}%
466
    \RangeCatcodeCheck{37}{37}{14}%
467
    \RangeCatcodeCheck{38}{47}{15}%
468
    \RangeCatcodeCheck{48}{57}{12}%
    \RangeCatcodeCheck{58}{63}{15}%
469
    \RangeCatcodeCheck{64}{64}{12}%
470
471
    \RangeCatcodeCheck{65}{90}{11}%
472
    \RangeCatcodeCheck{91}{91}{15}%
    \RangeCatcodeCheck{92}{92}{0}%
473
    \RangeCatcodeCheck{93}{96}{15}%
    \RangeCatcodeCheck{97}{122}{11}%
476
    \RangeCatcodeCheck{123}{255}{15}%
477
    \RestoreCatcodes
478 }
479 \Test
480 \csname @@end\endcsname
481 \end
482 (/test1)
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

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

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

¹http://ctan.org/pkg/hobsub

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.

4.2 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/
```

4.3 Package installation

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

```
tex hobsub.dtx
```

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

```
hobsub-sty \rightarrow tex/generic/oberdiek/hobsub.sty
hobsub-generic.sty \rightarrow tex/generic/oberdiek/hobsub-generic.sty
hobsub-hyperref.sty \rightarrow tex/generic/oberdiek/hobsub-hyperref.sty
hobsub.pdf \rightarrow doc/latex/oberdiek/hobsub.pdf
test/hobsub-test1.tex \rightarrow doc/latex/oberdiek/test/hobsub-test1.tex
hobsub.dtx \rightarrow source/latex/oberdiek/hobsub.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.

4.4 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.

4.5 Some details for the interested

Unpacking with IATEX. 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{hobsub.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 pdfIATEX:

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

5 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is hobsub.xml.

```
483 (*catalogue)
484 <?xml version='1.0' encoding='us-ascii'?>
485 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
486 <entry datestamp='$Date$' modifier='$Author$' id='hobsub'>
487 <name>hobsub</name>
488 <caption>Construct package bundles</caption>
          <authorref id='auth:oberdiek'/>
489
          <copyright owner='Heiko Oberdiek' year='2011,2012'/>
490
          <license type='lppl1.3'/>
          <version number='1.14'/>
492
493
          <description>
             The package offers a means of loading a bundle of (other) packages
494
            \#x201C; at once \#x201D;, offering a means of reducing the amount of log out-
495
             as the packages are loaded, and an aide-memoire for complicated
496
             requirements. In some ways, loading a package via hobsub behaves
497
             much like loading the package in the normal way; for example,
498
499
             reloads are suppressed, as in LaTeX proper, and correct
              <tt>\listfiles</tt> output is produced.
500
              501
            Examples provided are a 'generic' bundle (comprising the au-
502
       thor&\#x2019;s
503 packages that can be used with Plain TeX) and a \#x2018; hyperref \#x2019; bundless and the sum of the s
       dle
             (comprising packages useful when generating hypertext output with
504
505
             LaTeX).
506
              The package is part of the xref refid='oberdiek'>oberdiek> bundle.
507
508
          </description>
          <documentation details='Package documentation'</pre>
                href='ctan:/macros/latex/contrib/oberdiek/hobsub.pdf'/>
510
511 <ctan file='true' path='/macros/latex/contrib/oberdiek/hobsub.dtx'/>
512 <miktex location='oberdiek'/>
513 <texlive location='oberdiek'/>
514 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
515 </entry>
516 (/catalogue)
```

6 References

 $[1] \begin{tabular}{l} Will Robertson, $[lltx]$ quietening lualatex console output; mailing list lualatex-dev at tug.org, $2011-01-29$; \end{tabular}$

http://tug.org/pipermail/lualatex-dev/2011-January/001031.html.

7 History

[2011/01/30 v1.0]

• First public version.

[2011/04/16 v1.1]

• Package updates.

[2011/04/17 v1.2]

• White spaces at line begins are removed or reduced in the generated collection packages.

[2011/04/18 v1.3]

• Package updates.

[2011/04/23 v1.4]

• Package updates.

[2011/06/24 v1.5]

• Package updates.

[2011/06/30 v1.6]

• Package updates.

[2011/07/01 v1.7]

• Package updates.

[2011/07/28 v1.8]

• Package updates.

[2011/08/22 v1.9]

• Package updates.

[2011/10/16 v1.10]

• Package updates.

[2011/11/29 v1.11]

• Package updates.

[2012/04/25 v1.12]

• Package updates.

[2012/05/28 v1.13]

• Package updates.

[2016/05/16 v1.14]

• Documentation updates.

8 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

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