# Documented Code For glossaries v4.07

Nicola L.C. Talbot

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This is the documented code for the glossaries package. This bundle comes with the following documentation:

glossariesbegin.pdf If you are a complete beginner, start with "The glossaries package: a guide for beginners".

glossary2glossaries.pdf If you are moving over from the obsolete glossary package, read "Upgrading from the glossary package to the glossaries package".

glossaries-user.pdf For the main user guide, read "glossaries.sty v4.07: ETEX2e Package to Assist Generating Glossaries".

mfirstuc-manual.pdf The commands provided by the mfirstuc package are briefly described in "mfirstuc.sty: uppercasing first letter".

**glossaries-code.pdf** This document is for advanced users wishing to know more about the inner workings of the glossaries package.

**INSTALL** Installation instructions.

CHANGES Change log.

**README** Package summary.

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# 1 Main Package Code

## 1.1 Package Definition

This package requires  $\mathbb{E}_{E} X 2_{\mathcal{E}}$ .

- 1 \NeedsTeXFormat{LaTeX2e}
- 2\ProvidesPackage{glossaries}[2014/04/04 v4.07 (NLCT)]

#### Required packages:

- 3 \RequirePackage{ifthen}
- 4 \RequirePackage{xkeyval}[2006/11/18]
- 5 \RequirePackage{mfirstuc}

The textcase package has much better case changing handling, so use  $\MakeTextUppercase$  instead of  $\MakeUppercase$ 

- ${\small \texttt{6} \backslash \texttt{RequirePackage\{textcase}\}}$
- 7\renewcommand\*{\mfirstucMakeUppercase}{\MakeTextUppercase}%

```
9 \RequirePackage{datatool-base}
                    Need to use \new@ifnextchar instead of \@ifnextchar in commands that
                    have a final optional argument (such as \gls) so require. Thanks to Morten Høgholm
                    for suggesting this. (This has replaced using the xspace package.)
                    10 \RequirePackage{amsgen}
                    As from v3.0, now loading etoolbox:
                    11 \RequirePackage{etoolbox}
                    Check if doc has been loaded.
 \if@gls@docloaded
                    12 \newif\if@gls@docloaded
                    13 \@ifpackageloaded{doc}%
                    14 {%
                    15 \@gls@docloadedtrue
                    16 }%
                    17 {%
                       18
                    19 }
                    20\if@gls@docloaded
                    \doc has been loaded, so some modifications need to be made to ensure both
                    packages can work together.
                    First, save the original behaviour of \glossary
  \glsorg@glossary
                        \newcommand{\glsorg@glossary}{%
                    22
                          \@bsphack
                    23
                            \begingroup
                              \@sanitize \endgroup\@esphack
                    24
                       }
                    25
\glsorg@wrglossary
                        \newcommand{\glsorg@wrglossary}[1]{%
                    26
                    27
                              \protected@write\@glossaryfile{}{%
                    28
                                \string \glossaryentry{#1}{\thepage}}%
                    29
                            \endgroup
                    30
                          \@esphack
                        }
                    31
                        \renewcommand*{\RecordChanges}{%
                    32
                    33
                          \newwrite\@glossaryfile
                          \immediate\openout\@glossaryfile=\jobname.glo
                          \def\glsorg@glossary{\@bsphack\begingroup\@sanitize\glsorg@wrglossary}%
                    35
                    36
                          \typeout{Writing glossary file \jobname .glo}%
                       }
                    37
```

8 \RequirePackage{xfor}

\changes Now we need to redefine \changes so that it uses the original definition of \glossary.

```
38 \let\glsorg@changes\changes
39 \renewcommand{\changes}[3]{%
40 \begingroup
41 \let\glossary\glsorg@glossary
42 \glsorg@changes{#1}{#2}{#3}%
43 \endgroup
44 }
```

\PrintChanges needs to use doc's version of theglossary, so save that.

\glsorg@theglossary

45 \let\glsorg@theglossary\theglossary

sorg@endtheglossary

46 \let\glsorg@endtheglossary\endtheglossary

\PrintChanges

Now redefine \PrintChanges so that it uses the original theglossary environment.

```
47 \let\glsorg@PrintChanges\PrintChanges
48 \renewcommand{\PrintChanges}{%
49 \begingroup
50 \let\theglossary\glsorg@theglossary
51 \let\endtheglossary\glsorg@endtheglossary
52 \glsorg@PrintChanges
53 \endgroup
54 }
```

End of doc stuff.

55\fi

## 1.2 Package Options

The toc package option will add the glossaries to the table of contents. This is a boolean key, if the value is omitted it is taken to be true.

56 \define@boolkey{glossaries.sty}[gls]{toc}[true]{}

numberline

The numberline package option adds \numberline to \addcontentsline. Note that this option only has an effect if used in with toc=true.

57 \define@boolkey{glossaries.sty}[gls]{numberline}[true]{}

\@@glossarysec

The sectional unit used to start the glossary is stored in \@@glossarysec. If chapters are defined, this is initialised to chapter, otherwise it is initialised to section.

```
58\ifcsundef{chapter}%
59 {\newcommand*{\@0glossarysec}{section}}%
60 {\newcommand*{\@0glossarysec}{chapter}}
```

section

The section key can be used to set the sectional unit. If no unit is specified, use section as the default. The starred form of the named sectional unit will be used. If you want some other way to start the glossary section (e.g. a numbered section) you will have to redefined \glossarysection.

```
61 \define@choicekey{glossaries.sty}{section}{part,chapter,section,% 62 subsection,subsubsection,paragraph,subparagraph}[section]{%    \renewcommand*{\@@glossarysec}{#1}}
```

Determine whether or not to use numbered sections.

```
\@@glossarysecstar
```

```
64 \newcommand*{\@@glossarysecstar}{*}
```

\@@glossaryseclabel

```
65 \newcommand*{\@@glossaryseclabel}{}
```

\glsautoprefix

Prefix to add before label if automatically generated:

```
66 \newcommand*{\glsautoprefix}{}
```

numberedsection

```
67\define@choicekey{glossaries.sty}{numberedsection}[\val\nr]{%
68 false, nolabel, autolabel, nameref} [nolabel] {%
   \ifcase\nr\relax
      \renewcommand*{\@@glossarysecstar}{*}%
70
      \renewcommand*{\@@glossaryseclabel}{}%
71
72
      \renewcommand*{\@@glossarysecstar}{}%
      \renewcommand*{\@0glossaryseclabel}{}%
74
75
      \renewcommand*{\@@glossarysecstar}{}%
76
77
      \renewcommand*{\@@glossaryseclabel}{%
78
        \label{\glsautoprefix\@glo@type}}%
79
   \or
80
      \renewcommand*{\@@glossarysecstar}{*}%
      \renewcommand*{\@@glossaryseclabel}{%
81
        \protected@edef\@currentlabelname{\glossarytoctitle}%
82
        \label{\glsautoprefix\@glo@type}}%
83
   \fi
84
85 }
```

The default glossary style is stored in \@glossary@default@style. This is initialised to list. (The list style is defined in the accompanying package described in subsection 1.18.)

ssary@default@style

```
86 \newcommand*{\@glossary@default@style}{list}
```

The default glossary style can be changed using the style package option. The value can be the name of any defined glossary style. The glossary style is set at the beginning of the document, so you can still use the style key to set a style that is defined in another package. This package comes with some predefined styles that are defined in subsection 1.18.

```
87 \define@key{glossaries.sty}{style}{%
   \renewcommand*{\@glossary@default@style}{#1}%
89 }
```

Each \DeclareOptionX needs a corresponding \DeclareOption so that it can be passed as a document class option, so define a command that will implement both.

\@gls@declareoption

```
90 \newcommand*{\@gls@declareoption}[2]{%
   \DeclareOptionX{#1}{#2}%
   \DeclareOption{#1}{#2}%
92
93 }
```

Each entry within a given glossary will have an associated number list. By default, this refers to the page numbers on which that entry has been used, but it can also refer to any counter used in the document (such as the section or equation counters). The default number list format displays the number list "as is":

lossaryentrynumbers

```
94\newcommand*{\glossaryentrynumbers}[1]{#1\gls@save@numberlist{#1}}
```

nonumberlist

Note that the entire number list for a given entry will be passed to \glossaryentrynumbers so any font changes will also be applied to the delimiters. The nonumberlist package option suppresses the number lists (this simply redefines \glossaryentrynumbers to ignores its argument).

```
95 \@gls@declareoption{nonumberlist}{%
    \renewcommand*{\glossaryentrynumbers}[1]{\gls@save@numberlist{#1}}%
97 }
```

savenumberlist

Provide means to store the number list for entries.

```
98 \define@boolkey{glossaries.sty}[gls]{savenumberlist}[true]{}
99\glssavenumberlistfalse
```

o@seeautonumberlist

```
100 \newcommand*\@glo@seeautonumberlist{}
```

seeautonumberlist Automatically activates number list for entries containing the see key.

```
101 \@gls@declareoption{seeautonumberlist}{%
      \renewcommand*{\@glo@seeautonumberlist}{%
102
103
         \def\@glo@prefix{\glsnextpages}%
104
105 }
```

```
\@gls@loadlong
                      106 \newcommand*{\@gls@loadlong}{\RequirePackage{glossary-long}}
                      This option prevents from being loaded. This means that the glossary styles
             nolong
                      that use the longtable environment will not be available. This option is pro-
                      vided to reduce overhead caused by loading unrequired packages.
                      107 \@gls@declareoption{nolong}{\renewcommand*{\@gls@loadlong}{}}
                      The package isn't loaded if isn't installed.
   \@gls@loadsuper
                      108 \IfFileExists{supertabular.sty}{%
                           \newcommand*{\@gls@loadsuper}{\RequirePackage{glossary-super}}}{%
                           \newcommand*{\@gls@loadsuper}{}}
                      110
            nosuper
                      This option prevents from being loaded. This means that the glossary styles
                      that use the supertabular environment will not be available. This option is pro-
                      vided to reduce overhead caused by loading unrequired packages.
                      111 \@gls@declareoption{nosuper}{\renewcommand*{\@gls@loadsuper}{}}
     \@gls@loadlist
                      112 \newcommand*{\@gls@loadlist}{\RequirePackage{glossary-list}}
                      This option prevents from being loaded (to reduce overheads if required). Nat-
             nolist
                      urally, the styles defined in will not be available if this option is used.
                      113 \@gls@declareoption{nolist}{\renewcommand*{\@gls@loadlist}{}}
     \@gls@loadtree
                      114 \newcommand*{\@gls@loadtree}{\RequirePackage{glossary-tree}}
                     This option prevents from being loaded (to reduce overheads if required). Nat-
             notree
                      urally, the styles defined in will not be available if this option is used.
                      115 \@gls@declareoption{notree}{\renewcommand*{\@gls@loadtree}{}}
                      Provide an option to suppress all the predefined styles (in the event that the
                      user has custom styles that are not dependent on the predefined styles).
                      116 \@gls@declareoption{nostyles}{%
                           \renewcommand*{\@gls@loadlong}{}%
                      118
                          \renewcommand*{\@gls@loadsuper}{}%
                          \renewcommand*{\@gls@loadlist}{}%
                          \renewcommand*{\@gls@loadtree}{}%
                      120
                           \let\@glossary@default@style\relax
                      121
                      122 }
                      The description terminator is given by \glspostdescription (except for the
\glspostdescription
                      3 and 4 column styles). This is a full stop by default. The spacefactor is ad-
                      justed in case the description ends with an upper case letter. (Patch provided
```

by Michael Pock.)

```
123 \newcommand*{\glspostdescription}{%
                     124 \ifglsnopostdot\else.\spacefactor\sfcode'\. \fi
                     125 }
          nopostdot Boolean option to suppress post description dot
                     126 \define@boolkey{glossaries.sty}[gls]{nopostdot}[true]{}
                     127 \glsnopostdotfalse
                      Boolean option to suppress vertical space between groups in the pre-defined
        nogroupskip
                      styles.
                     128 \define@boolkey{glossaries.sty}[gls]{nogroupskip}[true]{}
                     129\glsnogroupskipfalse
             ucmark Boolean option to determine whether or not to use use upper case in definition
                      of \glsglossarymark
                     130 \define@boolkey{glossaries.sty}[gls]{ucmark}[true]{}
                     131 \@ifclassloaded{memoir}
                     132 {%
                          \glsucmarktrue
                     133
                     134 }%
                     135 {%
                     136 \glsucmarkfalse
                     137 }
       entrycounter Defines a counter that can be used in the standard glossary styles to number
                      each (main) entry. If true, this will define a counter called glossaryentry.
                     138 \define@boolkey{glossaries.sty}[gls]{entrycounter}[true]{}
                     139 \glsentrycounterfalse
                     This option can be used to set a parent counter for glossaryentry. This option
entrycounterwithin
                      automatically sets entrycounter=true.
                     140 \define@key{glossaries.sty}{counterwithin}{%
                          \renewcommand*{\@gls@counterwithin}{#1}%
                          \glsentrycountertrue
                     142
                     143 }
\@gls@counterwithin The default value is no parent counter:
                     144 \newcommand*{\@gls@counterwithin}{}
                      Define a counter that can be used in the standard glossary styles to number
   subentrycounter
                      each level 1 entry. If true, this will define a counter called glossarysubentry.
                     145 \define@boolkey{glossaries.sty}[gls]{subentrycounter}[true]{}
                     146 \glssubentrycounterfalse
lo@default@sorttype Initialise default sort for \printnoidxglossary
                     147 \newcommand*{\@glo@default@sorttype}{standard}
```

port Define the sort method: sort=standard (default), sort=def (order of definition)
 or sort=use (order of use).

```
148 \define@choicekey{glossaries.sty}{sort}{standard,def,use}{%
149 \renewcommand*{\@glo@default@sorttype}{#1}%
150 \csname @gls@setupsort@#1\endcsname
151}
```

\glsprestandardsort

```
\glsprestandardsort{\langle sort \, cs \rangle}{\langle type \rangle}{\langle label \rangle}
```

Allow user to hook into sort mechanism. The first argument (*sort cs*) is the temporary control sequence containing the sort value before it has been sanitized and had makeindex/xindy special characters escaped.

```
152 \newcommand*{\glsprestandardsort}[3]{%
153 \glsdosanitizesort
154}
```

@setupsort@standard

Set up the macros for default sorting.

```
155 \newcommand*{\@gls@setupsort@standard}{%
```

Store entry information when it's defined.

```
156 \def\do@glo@storeentry{\@glo@storeentry}%
```

No count register required for standard sort.

```
157 \def\@gls@defsortcount##1{}%
```

Sort according to sort key (\@glo@sort) if provided otherwise sort according to the entry's name (\@glo@name). (First argument glossary type, second argument entry label.)

```
158 \def\@gls@defsort##1##2{%
159 \ifx\@glo@sort\@glsdefaultsort
160 \let\@glo@sort\@glo@name
161 \fi

162 \let\glsdosanitizesort\@gls@sanitizesort
163 \glsprestandardsort{\@glo@sort}{##1}{##2}%
164 \expandafter\protected@xdef\csname glo@##2@sort\endcsname{\@glo@sort}%
165 }%
```

Don't need to do anything when the entry is used.

```
166 \def\@gls@setsort##1{}%
167}
```

Set standard sort as the default:

```
168 \@gls@setupsort@standard
```

\glssortnumberfmt

Format the number used as the sort key by sort=def and sort=use. Defaults to six digit numbering.

```
169 \newcommand*\glssortnumberfmt[1]{%
```

```
\ifnum#1<100000 0\fi
   \ifnum#1<10000 0\fi
171
172 \ifnum#1<1000 0\fi
    \ifnum#1<100 0\fi
173
     \ifnum#1<10 0\fi
     \number#1%
175
176}
Set up the macros for order of definition sorting.
177 \newcommand*{\@gls@setupsort@def}{%
Store entry information when it's defined.
     \def\do@glo@storeentry{\@glo@storeentry}%
Defined count register associated with the glossary.
     \def\@gls@defsortcount##1{%
       \expandafter\global
180
       \expandafter\newcount\csname glossary@##1@sortcount\endcsname
181
182
Increment count register associated with the glossary and use as the sort key.
     \def\@gls@defsort##1##2{%
184
       \expandafter\global\expandafter
       \advance\csname glossary@##1@sortcount\endcsname by 1\relax
185
       \expandafter\protected@xdef\csname glo@##2@sort\endcsname{%
          \expandafter\glssortnumberfmt
187
            {\csname glossary@##1@sortcount\endcsname}}%
188
    }%
189
Don't need to do anything when the entry is used.
190
     \def\@gls@setsort##1{}%
191 }
Set up the macros for order of use sorting.
192 \newcommand*{\@gls@setupsort@use}{%
Don't store entry information when it's defined.
    \let\do@glo@storeentry\@gobble
Defined count register associated with the glossary.
     \def\@gls@defsortcount##1{%
194
195
       \expandafter\global
       \expandafter\newcount\csname glossary@##1@sortcount\endcsname
196
    }%
197
Initialise the sort key to empty.
     \def\@gls@defsort##1##2{%
       \expandafter\gdef\csname glo@##2@sort\endcsname{}%
199
200
    }%
If the sort key hasn't been set, increment the counter associated with the glos-
sary and set the sort key.
```

\@gls@setupsort@def

\@gls@setupsort@use

\def\@gls@setsort##1{%

```
Get the parent, if one exists
```

```
202 \edef\@glo@parent{\csname glo@##1@parent\endcsname}%
```

Set the information for the parent entry if not already done.

```
203 \ifx\@glo@parent\@empty
204 \else
205 \expandafter\@gls@setsort\expandafter{\@glo@parent}%
206 \fi
```

#### Set index information for this entry

```
207
       \edef\@glo@type{\csname glo@##1@type\endcsname}%
       \edef\@gls@tmp{\csname glo@##1@sort\endcsname}%
208
       \ifx\@gls@tmp\@empty
209
         \expandafter\global\expandafter
210
         \advance\csname glossary@\@glo@type @sortcount\endcsname by 1\relax
211
212
         \expandafter\protected@xdef\csname glo@##1@sort\endcsname{%
213
            \expandafter\glssortnumberfmt
              {\csname glossary@\@glo@type @sortcount\endcsname}}%
214
         \@glo@storeentry{##1}%
215
       \fi
216
217
    }%
218 }
```

\glsdefmain

Define the main glossary. This will be the first glossary to be displayed when using \printglossaries. The default extensions conflict if used with doc, so provide different extensions if doc loaded. (If these extensions are inappropriate, use nomain and manually define the main glossary with the desired extensions.)

```
219 \newcommand*{\glsdefmain}{%
220 \if@gls@docloaded
221 \newglossary[glg2]{main}{gls2}{glo2}{\glossaryname}%
222 \else
223 \newglossary{main}{gls}{glo}{\glossaryname}%
224 \fi
```

Define hook to set the toc title when translator is in use.

```
225 \newcommand*{\gls@tr@set@main@toctitle}{%
226 \translatelet{\glossarytoctitle}{Glossary}%
227 }%
228}
```

Keep track of the default glossary. This is initialised to the main glossary, but can be changed if for some reason you want to make a secondary glossary the main glossary. This affects any commands that can optionally take a glossary name as an argument (or as the value of the type key in a key-value list). This was mainly done so that \loadglsentries can temporarily change \glsdefaulttype while it loads a file containing new glossary entries (see subsection 1.9).

```
\glsdefaulttype
```

```
229 \newcommand*{\glsdefaulttype}{main}
```

Keep track of which glossary the acronyms are in. This is initialised to \glsdefaulttype, but is changed by the acronym package option.

\acronymtype

```
230 \newcommand*{\acronymtype}{\glsdefaulttype}
```

The nomain option suppress the creation of the main glossary. nomain

```
231 \@gls@declareoption{nomain}{%
      \let\glsdefaulttype\relax
232
      \renewcommand*{\glsdefmain}{}%
233
234 }
```

acronym

The acronym option sets an associated conditional which is used in subsection 1.16 to determine whether or not to define a separate glossary for acronyms.

```
235 \define@boolkey{glossaries.sty}[gls]{acronym}[true]{%
    \ifglsacronym
       \renewcommand{\@gls@do@acronymsdef}{%
237
         \DeclareAcronymList{acronym}%
238
         \newglossary[alg]{acronym}{acr}{acn}{\acronymname}%
239
         \renewcommand*{\acronymtype}{acronym}%
240
Define hook to set the toc title when translator is in use.
241
         \newcommand*{\gls@tr@set@acronym@toctitle}{%
           \translatelet{\glossarytoctitle}{Acronyms}%
242
         }%
243
      }%
244
     \else
245
       \let\@gls@do@acronymsdef\relax
246
```

\printacronyms

Define \printacronyms at the start of the document if acronym is set and compatibility mode isn't on and \printacronyms hasn't already been defined.

```
249 \AtBeginDocument{%
     \ifglsacronym
250
       \ifbool{glscompatible-3.07}%
251
       {}%
252
253
          \providecommand*{\printacronyms}[1][]{%
254
            \printglossary[type=\acronymtype,#1]}%
255
256
       }%
257
     \fi
258 }
```

OglsOdoOacronymsdef Set default value

\fi

247 248 }

259 \newcommand\*{\@gls@do@acronymsdef}{}

acronyms Provide a synonym for acronym=true that can be passed via the document class options.

```
260 \@gls@declareoption{acronyms}{%
261 \glsacronymtrue
262 \renewcommand{\@gls@do@acronymsdef}{%
263 \DeclareAcronymList{acronym}%
264 \newglossary[alg]{acronym}{acr}{acn}{\acronymname}%
265 \renewcommand*{\acronymtype}{acronym}%

Define hook to set the toc title when translator is in use.
266 \newcommand*{\gls@tr@set@acronym@toctitle}{%
```

\@glsacronymlists

Comma-separated list of glossary labels indicating which glossaries contain acronyms. Note that \SetAcronymStyle must be used after adding labels to this macro.

271 \newcommand\*{\@glsacronymlists}{}

\@addtoacronynlists

```
272 \newcommand*{\@addtoacronymlists}[1]{%
273 \ifx\@glsacronymlists\@empty
274 \protected@xdef\@glsacronymlists{#1}%
275 \else
276 \protected@xdef\@glsacronymlists{\@glsacronymlists,#1}%
277 \fi
278}
```

\DeclareAcronymList

Identifies the named glossary as a list of acronyms and adds to the list. (Doesn't check if the glossary exists, but checks if label already in list. Use \SetAcronymStyle after identifying all the acronym lists.)

```
279 \newcommand*{\DeclareAcronymList}[1]{%
280 \glsIfListOfAcronyms{#1}{}{\@addtoacronymlists{#1}}%
281}
```

\glsIfListOfAcronyms

```
\glsIfListOfAcronyms{\langle label \rangle}{\langle true\ part \rangle}{\langle false\ part \rangle}
```

Determines if the glossary with the given label has been identified as being a list of acronyms.

```
282 \newcommand{\glsIfListOfAcronyms}[1]{%
283 \edef\@do@gls@islistofacronyms{%
284 \noexpand\@gls@islistofacronyms{#1}{\@glsacronymlists}}%
285 \@do@gls@islistofacronyms
286}
```

```
Internal command requires label and list to be expanded:
                     287 \newcommand{\@gls@islistofacronyms}[4]{%
                          \def\gls@islistofacronyms##1,#1,##2\end@gls@islistofacronyms{%
                              \def\@efore{##1}\def\@efter{##2}}%
                     289
                          \gls@islistofacronyms,#2,#1,\@nil\end@gls@islistofacronyms
                     290
                          \ifx\@after\@nnil
                     291
                      Not found
                     292
                            #4%
                     293
                          \else
                      Found
                     294
                            #3%
                     295
                          \fi
                     296 }
if@glsisacronymlist Convenient boolean.
                     297 \newif\if@glsisacronymlist
Ocheckisacronymlist Sets the above boolean if argument is a label representing a list of acronyms.
                     298 \newcommand*{\gls@checkisacronymlist}[1]{%
                           \glsIfListOfAcronyms{#1}%
                              {\@glsisacronymlisttrue}{\@glsisacronymlistfalse}%
                     300
                     301 }
                      Sets the "list of acronyms" list. Argument must be a comma-separated list of
                      glossary labels. (Doesn't check at this point if the glossaries exists.)
                     302 \newcommand*{\SetAcronymLists}[1]{%
                          \renewcommand*{\@glsacronymlists}{#1}%
                     304 }
                     305 \define@key{glossaries.sty}{acronymlists}{%
```

\SetAcronymLists

acronymlists

306 307 }

> The default counter associated with the numbers in the glossary is stored in \glscounter. This is initialised to the page counter. This is used as the default counter when a new glossary is defined, unless a different counter is specified in the optional argument to \newglossary (see subsection 1.6).

```
\glscounter
             308 \newcommand{\glscounter}{page}
             The counter option changes the default counter. (This just redefines \glscounter.)
             309 \define@key{glossaries.sty}{counter}{%
                  \renewcommand*{\glscounter}{#1}%
             311 }
```

\DeclareAcronymList{#1}%

```
\@gls@nohyperlist
                    312 \newcommand*{\@gls@nohyperlist}{}
{	t sDeclareNoHyperList}
                    313 \newcommand*{\GlsDeclareNoHyperList}[1]{%
                         \ifdefempty\@gls@nohyperlist
                    315
                             \renewcommand*{\@gls@nohyperlist}{#1}%
                    316
                    317
                         }%
                    318
                         {%
                    319
                             \appto\@gls@nohyperlist{,#1}%
                    320 }%
                    321 }
      nohypertypes
                    322 \define@key{glossaries.sty}{nohypertypes}{%
                    323 \GlsDeclareNoHyperList{#1}%
                    324 }
\GlossariesWarning Prints a warning message.
                    325 \newcommand*{\GlossariesWarning}[1]{%
                         \PackageWarning{glossaries}{#1}%
                    327 }
sariesWarningNoLine Prints a warning message without the line number.
                    328 \newcommand*{\GlossariesWarningNoLine}[1]{%
                     329 \PackageWarningNoLine{glossaries}{#1}%
                    330 }
             nowarn Define package option to suppress warnings
                    331 \@gls@declareoption{nowarn}{%
                         \renewcommand*{\GlossariesWarning}[1]{}%
                         \renewcommand*{\GlossariesWarningNoLine}[1]{}%
                    334 }
Owarnonglossdefined Issue a warning if overriding \printglossary
                     335 \newcommand*{\@gls@warnonglossdefined}{%
                         \GlossariesWarning{Overriding \string\printglossary}%
                    337 }
rnontheglossdefined Issue a warning if overriding theglossary
                    338 \newcommand*{\@gls@warnontheglossdefined}{%
                         \GlossariesWarning{Overriding 'theglossary' environment}%
                    340 }
       noredefwarn Suppress warning on redefinition of \printglossary
                    341 \@gls@declareoption{noredefwarn}{%
                    342 \renewcommand*{\@gls@warnonglossdefined}{}%
```

```
\renewcommand*{\@gls@warnontheglossdefined}{}%
344 }
```

As from version 3.08a, the only information written to the external glossary files are the label and sort values. Therefore, now, the only sanitize option that makes sense is the one for the sort key. so the sanitize option is now deprecated and there is only a sanitizesort option.

#### \@gls@sanitizedesc

```
345 \newcommand*{\@gls@sanitizedesc}{%
346 }
```

#### \glssetexpandfield

## $\glssetexpandfield{\langle field \rangle}$

Sets field to always expand.

```
347 \newcommand*{\glssetexpandfield}[1]{%
   \csdef{gls@assign@#1@field}##1##2{%
349
     350
   }%
351 }
```

#### \glssetnoexpandfield

#### $\glssetnoexpandfield{\langle field angle}$

Sets field to never expand.

```
352 \newcommand*{\glssetnoexpandfield}[1]{%
     \csdef{gls@assign@#1@field}##1##2{%
354
       \@@gls@noexpand@field{##1}{#1}{##2}%
    }%
355
356 }
```

s@assign@type@field

The type must always be expandable.

357 \glssetexpandfield{type}

s@assign@desc@field

The description is not expanded by default:

358 \glssetnoexpandfield{desc}

gn@descplural@field

359 \glssetnoexpandfield{descplural}

\@gls@sanitizename

360 \newcommand\*{\@gls@sanitizename}{}

s@assign@name@field Don't expand name by default.

361 \glssetnoexpandfield{name}

```
@gls@sanitizesymbol
                     362 \newcommand*{\@gls@sanitizesymbol}{}
assign@symbol@field Don't expand symbol by default.
                     363 \glssetnoexpandfield{symbol}
@symbolplural@field
                     364 \glssetnoexpandfield{symbolplural}
                        Sanitizing stuff:
\@gls@sanitizesort
                     365 \newcommand*{\@gls@sanitizesort}{%
                         \ifglssanitizesort
                            \@@gls@sanitizesort
                     367
                         \else
                     368
                           \@@gls@nosanitizesort
                     369
                     370
                         \fi
                     371 }
\@@gls@sanitizesort
                     372 \newcommand*\@@gls@sanitizesort{%
                         \@onelevel@sanitize\@glo@sort
                     374}
OglsOnosanitizesort
                     375 \newcommand*{\@@gls@nosanitizesort}{}
@noidx@sanitizesort Remove braces around first character (if present) before sanitizing.
                     376 \newcommand*\@gls@noidx@sanitizesort{%
                         \ifdefvoid\@glo@sort
                     377
                         {}%
                     378
                     379
                         {%
                            \verb|\expandafter|@@gls@noidx@sanitizesort|@glo@sort|gls@end@sanitizesort|| \\
                     380
                         }%
                     381
                     382 }
                     383 \def\@@gls@noidx@sanitizesort#1#2\gls@end@sanitizesort{%
                         \def\@glo@sort{#1#2}%
                     385
                         \@onelevel@sanitize\@glo@sort
                     386}
oidx@nosanitizesort
                     387 \newcommand*{\@@gls@noidx@nosanitizesort}{%
                         \ifdefvoid\@glo@sort
                     388
                         {}%
                     389
                            \expandafter\@@gls@noidx@no@sanitizesort\@glo@sort\gls@end@sanitizesort
                     391
```

}%

392

```
393 }
394 \def\@@gls@noidx@no@sanitizesort#1#2\gls@end@sanitizesort{%
395
                                     \bgroup
                                                       \glsnoidxstripaccents
396
                                                       \protected@xdef\@@glo@sort{#1#2}%
 397
398
                                      \egroup
                                      \let\@glo@sort\@@glo@sort
 399
 400 }
401 \newcommand*\glsnoidxstripaccents{%
                                     \let\IeC\@firstofone
 402
                                    \let\'\@firstofone
403
                                  \let\'\@firstofone
 404
                                  \let\^\@firstofone
                                    \let\"\@firstofone
406
                                     \left( \cdot \right) = \left( \cdot
407
                                     \let\t\@firstofone
                                     \let\d\@firstofone
                                    \let\r\@firstofone
410
                                    \let\=\@firstofone
411
412
                                   \let\.\@firstofone
                                   \let\~\@firstofone
413
                                     \let\v\@firstofone
414
                                     \let\H\@firstofone
415
                                     \let\c\@firstofone
                                     \let\b\@firstofone
417
                                     \def\AE{AE}%
418
                                     \def\ae{ae}%
419
                                     \def\0E\{0E\}\%
420
421
                                     \def\oe{oe}%
                                     \def\AA{AA}%
422
                                     \def\aa{aa}%
423
                                     \left\{L\{L\}\right\}
```

lsnoidxstripaccents

Before defining the sanitize package option, The key-value list for the sanitize value needs to be defined. These are all boolean keys. If they are not given a value, assume true.

 $\left(1{1}\right)$ 

 $\left(0{0}\right)$ 

\def\o{o}% \def\SS{SS}% \def\ss{ss}%

 $\left( \frac{th}{th}\right)$ 

425

426 427

429

430 431 }

```
432 \define@boolkey[gls]{sanitize}{description}[true]{%
433 \GlossariesWarning{sanitize={description} package option deprecated}%
434 \ifgls@sanitize@description
435 \glssetnoexpandfield{desc}%
```

```
437
                            \glssetexpandfield{desc}%
                     438
                            \glssetexpandfield{descplural}%
                     439
                     440
                          \fi
                     441 }
                     442 \define@boolkey[gls] {sanitize} {name} [true] {%
                          \GlossariesWarning{sanitize={name} package option deprecated}%
                          \ifgls@sanitize@name
                            \glssetnoexpandfield{name}%
                     445
                          \else
                     446
                            \glssetexpandfield{name}%
                     447
                     448
                     449 }
                     450 \define@boolkey[gls]{sanitize}{symbol}[true]{%
                          \GlossariesWarning{sanitize={symbol} package option deprecated}%
                          \ifgls@sanitize@symbol
                     452
                     453
                            \glssetnoexpandfield{symbol}%
                            \glssetnoexpandfield{symbolplural}%
                     454
                     455
                            \glssetexpandfield{symbol}%
                     456
                            \glssetexpandfield{symbolplural}%
                     457
                     458
                     459 }
       sanitizesort
                     460 \define@boolkey{glossaries.sty}[gls]{sanitizesort}[true]{%
                          \ifglssanitizesort
                     461
                            \glssetnoexpandfield{sortvalue}%
                     462
                            \renewcommand*{\@gls@noidx@setsanitizesort}{%
                     463
                     464
                              \glssanitizesorttrue
                              \glssetnoexpandfield{sortvalue}%
                     465
                            }%
                     466
                          \else
                     467
                            \glssetexpandfield{sortvalue}%
                     468
                            \renewcommand*{\@gls@noidx@setsanitizesort}{%
                     469
                     470
                              \glssanitizesortfalse
                              \glssetexpandfield{sortvalue}%
                     471
                            }%
                     472
                          \fi
                     473
                     474 }
                      Default setting:
                     475 \glssanitizesorttrue
                     476 \glssetnoexpandfield{sortvalue}%
                     Default behaviour for \makenoidxglossaries is sanitizesort=false.
idx@setsanitizesort
                     477 \newcommand*{\@gls@noidx@setsanitizesort}{%
                     478 \glssanitizesortfalse
```

\glssetnoexpandfield{descplural}%

436

```
\glssetexpandfield{sortvalue}%
                                                                                       480 }
                                                                                       481 \end{fine} \end{fine} (gls] \end{fine} (sort) \end{fine} (true) \end{fine} (tr
                                                                                                           \setbool{glssanitizesort}{#1}%
                                                                                                           \ifglssanitizesort
                                                                                       483
                                                                                                                    \glssetnoexpandfield{sortvalue}%
                                                                                       484
                                                                                       485
                                                                                                                    \glssetexpandfield{sortvalue}%
                                                                                       486
                                                                                       487
                                                                                                            \GlossariesWarning{sanitize={sort} package option
                                                                                       488
                                                                                                                    deprecated. Use sanitizesort instead}%
                                                                                       489
                                                                                       490 }
                                              sanitize
                                                                                       491 \define@key{glossaries.sty}{sanitize}[description=true,symbol=true,
                                                                                       492 name=true] {%
                                                                                                           \ifthenelse{\equal{#1}{none}}%
                                                                                       494
                                                                                                                    \GlossariesWarning{sanitize package option deprecated}%
                                                                                       495
                                                                                                           }%
                                                                                       496
                                                                                                            {%
                                                                                       497
                                                                                                                    \setkeys[gls]{sanitize}{#1}%
                                                                                       498
                                                                                                          }%
                                                                                       499
                                                                                       500 }
               \ifglstranslate
                                                                                         As from version 3.13a, the translator package option is a choice rather than
                                                                                           boolean option so now need to define conditional:
                                                                                       501 \newif\ifglstranslate
ls@notranslatorhook
                                                                                       502 \newcommand*\@gls@notranslatorhook{}
                                notranslate Provide a synonym for translate=false that can be passed via the document
                                                                                       503 \@gls@declareoption{notranslate}{%
                                                                                                                 \glstranslatefalse
                                                                                                                 \let\@gls@notranslatorhook\relax
                                                                                       505
                                                                                       506 }
                                          translate Define translate option. If false don't set up multi-lingual support.
                                                                                       507 \end{fine} \end{
                                                                                                            {true,false,babel}[true]%
                                                                                                           {%
                                                                                       509
                                                                                                                    \ifcase\nr\relax
                                                                                       510
                                                                                       511
                                                                                                                             \glstranslatetrue
                                                                                       512
                                                                                                                             \glstranslatefalse
                                                                                       513
                                                                                                                             \let\@gls@notranslatorhook\relax
                                                                                       514
```

```
516
                             \glstranslatefalse
                            \def\@gls@notranslatorhook{\RequirePackage{glossaries-babel}}%
                   517
                   518
                        }
                   519
                    Set the default value:
                   520 \glstranslatefalse
                        \@ifpackageloaded{translator}%
                   522
                          {\glstranslatetrue}%
                   523
                             \@ifpackageloaded{polyglossia}%
                   524
                   525
                                 {\glstranslatetrue}%
                   526
                                 {%
                                    \@ifpackageloaded{babel}{\glstranslatetrue}{}%
                   527
                                 }%
                   528
                   529 }
   indexonlyfirst Set whether to only index on first use.
                   530 \define@boolkey{glossaries.sty}[gls]{indexonlyfirst}[true]{}
                   531 \glsindexonlyfirstfalse
       hyperfirst Set whether or not terms should have a hyperlink on first use.
                   532 \define@boolkey{glossaries.sty}[gls]{hyperfirst}[true]{}
                   533 \glshyperfirsttrue
\@gls@setacrstyle Keep track of whether an acronym style has been set (for the benefit of
                    \setupglossaries):
                   534 \newcommand*{\@gls@setacrstyle}{}
         footnote Set the long form of the acronym in footnote on first use.
                   535 \define@boolkey{glossaries.sty}[glsacr]{footnote}[true]{%
                        \ifbool{glsacrdescription}%
                   536
                        {}%
                   537
                   538
                        {%
                          \renewcommand*{\@gls@sanitizedesc}{}%
                   539
                        }%
                   540
                        \renewcommand*{\@gls@setacrstyle}{\SetAcronymStyle}%
                   541
                   542 }
      description Allow acronyms to have a description (needs to be set using the description key
                    in the optional argument of \newacronym).
                   543 \define@boolkey{glossaries.sty}[glsacr]{description}[true]{%
                        \renewcommand*{\@gls@sanitizesymbol}{}%
                        \renewcommand*{\@gls@setacrstyle}{\SetAcronymStyle}%
                   546 }
```

515

\or

```
547\define@boolkey{glossaries.sty}[glsacr]{smallcaps}[true]{%
                  \renewcommand*{\@gls@sanitizesymbol}{}%
                  \renewcommand*{\@gls@setacrstyle}{\SetAcronymStyle}%
             550 }
    smaller Define \newacronym to set the short form using \smaller which obviously
              needs to be defined by loading the appropriate package.
             551 \define@boolkey{glossaries.sty}[glsacr]{smaller}[true]{%
                  \renewcommand*{\@gls@sanitizesymbol}{}%
                  \renewcommand*{\@gls@setacrstyle}{\SetAcronymStyle}%
             554 }
        dua Define \newacronym to always use the long forms (i.e. don't use acronyms)
             555 \define@boolkey{glossaries.sty}[glsacr]{dua}[true]{%
                  \renewcommand*{\@gls@sanitizesymbol}{}%
                  \renewcommand*{\@gls@setacrstyle}{\SetAcronymStyle}%
             557
             558 }
   shotcuts Define acronym shortcuts.
             559 \define@boolkey{glossaries.sty}[glsacr]{shortcuts}[true]{}
             Stores the glossary ordering. This may either be "word" or "letter". This passes
  \glsorder
              the relevant information to makeglossaries. The default is word ordering.
             560 \newcommand*{\glsorder}{word}
             The ordering information is written to the auxiliary file for makeglossaries,
 \@glsorder
              so ignore the auxiliary information.
             561 \newcommand*{\@glsorder}[1]{}
      order
             562 \define@choicekey{glossaries.sty}{order}{word,letter}{%
             563 \def\glsorder{#1}}
\ifglsxindy Provide boolean to determine whether xindy or makeindex will be used to sort
              the glossaries.
             564 \newif\ifglsxindy
              The default is makeindex:
             565\glsxindyfalse
  makeindex Define package option to specify that makeindex will be used to sort the glos-
              saries:
             566 \@gls@declareoption{makeindex}{\glsxindyfalse}
```

smallcaps Define \newacronym to set the short form in small capitals.

The xindy package option may have a value which in turn can be a key=value list. First define the keys for this sub-list. The boolean glsnumbers determines whether to automatically add the glsnumbers letter group.

```
567 \define@boolkey[gls]{xindy}{glsnumbers}[true]{} 568 \gls@xindy@glsnumberstrue
```

\@xdy@main@language

Define what language to use for each glossary type (if a language is not defined for a particular glossary type the language specified for the main glossary is used.)

569 \def\@xdy@main@language{\languagename}%

```
Define key to set the language
```

```
570 \define@key[gls]{xindy}{language}{\def\@xdy@main@language{#1}}
```

\gls@codepage

Define the code page. If \inputencodingname is defined use that, otherwise have initialise with no codepage.

```
571\ifcsundef{inputencodingname}{%
572 \def\gls@codepage{}}{%
573 \def\gls@codepage{\inputencodingname}
574}
```

Define a key to set the code page.

```
575 \define@key[gls]{xindy}{codepage}{\def\gls@codepage{#1}}
```

xindy Define package option to specify that xindy will be used to sort the glossaries:

```
576 \define@key{glossaries.sty}{xindy}[]{%
577 \glsxindytrue
578 \setkeys[gls]{xindy}{#1}%
579}
```

xindygloss Provide a synonym for xindy that can be passed via the document class options.

```
580 \@gls@declareoption{xindygloss}{%
581 \glsxindytrue
582}
```

xindynoglsnumbers

Provide a synonym for xindy=glsnumbers=false that can be passed via the document class options.

```
583 \@gls@declareoption{xindynoglsnumbers}{%
584 \glsxindytrue
585 \gls@xindy@glsnumbersfalse
586}
```

savewrites

The savewrites package option is provided to save on the number of write registers.

```
587 \define@boolkey{glossaries.sty}[gls]{savewrites}[true]{%
588 \ifglssavewrites
589 \renewcommand*{\glswritefiles}{\@glswritefiles}%
```

```
591
                                                                    \let\glswritefiles\@empty
                                                              \fi
                                                 592
                                                 593 }
                                                   Set default:
                                                  594\glssavewritesfalse
                                                 595 \let\glswritefiles\@empty
  compatible-3.07
                                                 596 \define@boolkey{glossaries.sty}[gls]{compatible-3.07}[true]{}
                                                 597\boolfalse{glscompatible-3.07}
  compatible-2.07
                                                 598 \ensuremath{\mbox{\mbox{$\mbox{$}}} \ensuremath{\mbox{$}} \e
                                                   Also set 3.07 compatibility if this option is set.
                                                               \ifbool{glscompatible-2.07}%
                                                 599
                                                 600
                                                               {%
                                                                     \booltrue{glscompatible-3.07}%
                                                 601
                                                              }%
                                                 602
                                                               {}%
                                                 603
                                                 604 }
                                                 605 \boolfalse{glscompatible-2.07}
                          symbols Create a "symbols" glossary type
                                                  606 \@gls@declareoption{symbols}{%
                                                               \let\@gls@do@symbolsdef\@gls@symbolsdef
                                                 608 }
                                                   Default is not to define the symbols glossary:
                                                  609 \verb|\newcommand*{\QglsQdoQsymbolsdef}{}|
\@gls@symbolsdef
                                                 610 \newcommand*{\@gls@symbolsdef}{%
                                                               \newglossary[slg]{symbols}{sls}{slo}{\glssymbolsgroupname}%
                                                               \newcommand*{\printsymbols}[1][]{\printglossary[type=symbols,##1]}%
                                                   Define hook to set the toc title when translator is in use.
                                                               \newcommand*{\gls@tr@set@symbols@toctitle}{%
                                                                     \translatelet{\glossarytoctitle}{Symbols (glossaries)}%
                                                 614
                                                              }%
                                                 615
                                                 616 }%
                                                Create a "symbols" glossary type
                          numbers
                                                 617 \@gls@declareoption{numbers}{%
                                                               \let\@gls@do@numbersdef\@gls@numbersdef
                                                 619 }
```

\else

```
Default is not to define the numbers glossary:
                 620 \newcommand*{\@gls@do@numbersdef}{}
\@gls@numbersdef
                 621 \newcommand*{\@gls@numbersdef}{%
                      \newglossary[nlg]{numbers}{nls}{nlo}{\glsnumbersgroupname}%
                      Define hook to set the toc title when translator is in use.
                      \newcommand*{\gls@tr@set@numbers@toctitle}{%
                        \translatelet{\glossarytoctitle}{Numbers (glossaries)}%
                 625
                 626
                 627 }%
           index Create an "index" glossary type
                 628 \@gls@declareoption{index}{%
                     \let\@gls@do@indexdef\@gls@indexdef
                 630 }
                  Default is not to define index glossary:
                 631 \newcommand*{\@gls@do@indexdef}{}
  \@gls@indexdef \indexname isn't set by glossaries.
                 632 \newcommand*{\@gls@indexdef}{%
                      \newglossary[ilg]{index}{ind}{idx}{\indexname}%
                      \newcommand*{\printindex}[1][]{\printglossary[type=index,##1]}%
                 634
                      \newcommand*{\newterm}[2][]{%
                 635
                        \newglossaryentry{##2}%
                 637
                        {type={index},name={##2},description={\nopostdesc},##1}}
                 638 }%
                    Process package options. First process any options that have been passed
                  via the document class.
                 639 \@for\CurrentOption :=\@declaredoptions\do{%
                      \ifx\CurrentOption\@empty
                 641
                      \else
                        \@expandtwoargs
                 642
                 643
                          \in@ {,\CurrentOption ,}{,\@classoptionslist,\@curroptions,}%
                 644
                          \@use@ption
                 645
                          \expandafter \let\csname ds@\CurrentOption\endcsname\@empty
                 646
                        \fi
                 647
                 648
                     \fi
                 649 }
```

Now process options passed to the package:

651 \RequirePackage{glossaries-compatible-307}

Load backward compatibility stuff:

650 \ProcessOptionsX

```
Provide way to set options after package has been loaded. However, some op-
\setupglossaries
                   tions must be set before \ProcessOptionsX, so they have to be disabled:
                   652 \disable@keys{glossaries.sty}{compatible-2.07,%
                   653 xindy, xindygloss, xindynoglsnumbers, makeindex, %
                   654 acronym, translate, notranslate, nolong, nosuper, notree, nostyles, nomain}
                   Now define \setupglossaries:
                   655 \newcommand*{\setupglossaries}[1]{%
                        \renewcommand*{\@gls@setacrstyle}{}%
                   656
                        \ifglsacrshortcuts
                  657
                          \def\@gls@setupshortcuts{\glsacrshortcutstrue}%
                  658
                        \else
                  659
                          \def\@gls@setupshortcuts{%
                   660
                   661
                            \ifglsacrshortcuts
                   662
                              \DefineAcronymSynonyms
                            \fi
                   663
                          }%
                   664
                       \fi
                   665
                        \glsacrshortcutsfalse
                   666
                        \let\@gls@do@numbersdef\relax
                   667
                        \let\@gls@do@symbolssdef\relax
                        \let\@gls@do@indexdef\relax
                   669
                        \let\@gls@do@acronymsdef\relax
                   670
                        \setkeys{glossaries.sty}{#1}%
                   671
                   672
                        \@gls@setacrstyle
                        \@gls@setupshortcuts
                  673
                        \@gls@do@acronymsdef
                  674
                        \@gls@do@numbersdef
                   675
                        \@gls@do@symbolssdef
                  677
                        \@gls@do@indexdef
                   678 }
                      If package is loaded, check to see if is installed, but only if translation is re-
                   quired.
                   679\ifglstranslate
                       \@ifpackageloaded{polyglossia}%
                   polyglossia fakes babel so need to check for polyglossia first.
                       }%
                   682
                        {%
                   683
                           \@ifpackageloaded{babel}%
                   684
                   685
                               \IfFileExists{translator.sty}%
                  686
                               {%
                  687
                                   \RequirePackage{translator}%
                   688
                               }%
                   689
```

{}%

}%

{}

691

692

```
693 }
694\fi
```

If chapters are defined and the user has requested the section counter as a package option,  $\cdot \cdot \c$ 

The same problem will also occur if a lower sectional unit is used, but this is less likely to happen. If it does, or if you change  $\glscounter$  to section later, you will have to specify a different counter for the entries that give rise to a name{(section-level) . (n) . 0} non-existent warning (e.g.  $\gls[counter=chapter]$ {label}).

\@gls@onlypremakeg

Some commands only have an effect when used before \makeglossaries. So define a list of commands that should be disabled after \makeglossaries

705 \newcommand\*{\@gls@onlypremakeg}{}

\@onlypremakeg

Adds the specified control sequence to the list of commands that must be disabled after \makeglossaries.

```
706 \newcommand*{\@onlypremakeg}[1]{%
707 \ifx\@gls@onlypremakeg\@empty
708 \def\@gls@onlypremakeg{#1}%
709 \else
710 \expandafter\toks@\expandafter{\@gls@onlypremakeg}%
711 \edef\@gls@onlypremakeg{\the\toks@,\noexpand#1}%
712 \fi
713 }
```

isable@onlypremakeg

Disable all commands listed in \@gls@onlypremakeg

```
714 \newcommand*{\@disable@onlypremakeg}{\%
715 \@for\@thiscs:=\@gls@onlypremakeg\do{\%
716 \expandafter\@disable@premakecs\@thiscs\%
717}}
```

\@disable@premakecs

Disables the given command.

```
718 \newcommand*{\@disable@premakecs}[1]{\%
719 \def#1{\PackageError{glossaries}{\string#1\space may only be
720 used before \string\makeglossaries}{You can't use
```

```
\string#1\space after \string\makeglossaries}}%
722 }
```

#### 1.3 Default values

This section sets up default values that are used by this package. Some of the names may already be defined (e.g. by ) so \providecommand is used.

Main glossary title:

```
\glossaryname
```

```
723 \providecommand*{\glossaryname}{Glossary}
```

The title for the acronym glossary type (which is defined if acronym package option is used) is given by \acronymname. If the acronym package option is not used, \acronymname won't be used.

\acronymname

```
724 \providecommand*{\acronymname}{Acronyms}
```

```
\glssettoctitle Sets the TOC title for the given glossary.
```

```
725 \newcommand*{\glssettoctitle}[1]{%
726 \def\glossarytoctitle{\csname @glotype@#1@title\endcsname}}
```

The following commands provide text for the headers used by some of the tabular-like glossary styles. Whether or not they get used in the glossary depends on the glossary style.

\entryname

727 \providecommand\*{\entryname}{Notation}

\descriptionname

728 \providecommand\*{\descriptionname}{Description}

\symbolname

729 \providecommand\*{\symbolname}{Symbol}

\pagelistname

730 \providecommand\*{\pagelistname}{Page List}

Labels for makeindex's symbol and number groups:

glssymbolsgroupname

731 \providecommand\*{\glssymbolsgroupname}{Symbols}

glsnumbersgroupname

732 \providecommand\*{\glsnumbersgroupname}{Numbers}

\glspluralsuffix The default plural is formed by appending \glspluralsuffix to the singular form

```
733 \newcommand*{\glspluralsuffix}{s}
```

\seename

```
734 \providecommand*{\seename}{see}
```

\andname

```
735 \providecommand*{\andname}{\&}
```

Add multi-lingual support. Thanks to everyone who contributed to the translations from both comp.text.tex and via email.

dglossarytocaptions

If using, \glossaryname should be defined in terms of \translate, but if babel is also loaded, it will redefine \glossaryname whenever the language is set, so override it. (Don't use \addto as doesn't define it.)

```
736 \newcommand*{\addglossarytocaptions}[1]{%
737
     \ifcsundef{captions#1}{}%
738
    {%
739
       \expandafter\let\expandafter\@gls@tmp\csname captions#1\endcsname
       \expandafter\toks@\expandafter{\@gls@tmp
740
         \renewcommand*{\glossaryname}{\translate{Glossary}}%
741
742
       \expandafter\edef\csname captions#1\endcsname{\the\toks@}%
743
744
    }%
745 }
```

746\ifglstranslate

If is not install, used standard captions, otherwise load dictionary.

```
\@ifpackageloaded{translator}{%
      \usedictionary{glossaries-dictionary}%
748
      \addglossarytocaptions{portuges}%
749
750
      \addglossarytocaptions{portuguese}%
      \addglossarytocaptions{brazil}%
751
      \addglossarytocaptions{brazilian}%
752
      \addglossarytocaptions{danish}%
753
      \addglossarytocaptions{dutch}%
754
      \addglossarytocaptions{afrikaans}%
755
      \addglossarytocaptions{english}%
756
      \addglossarytocaptions{UKenglish}%
757
      \addglossarytocaptions{USenglish}%
758
      \addglossarytocaptions{american}%
759
760
      \addglossarytocaptions{australian}%
      \addglossarytocaptions{british}%
761
762
      \addglossarytocaptions{canadian}%
      \addglossarytocaptions{newzealand}%
763
      \addglossarytocaptions{french}%
764
      \addglossarytocaptions{frenchb}%
765
```

```
\addglossarytocaptions{francais}%
766
       \addglossarytocaptions{acadian}%
767
       \addglossarytocaptions{canadien}%
768
       \addglossarytocaptions{german}%
769
       \addglossarytocaptions{germanb}%
770
       \addglossarytocaptions{austrian}%
771
       \addglossarytocaptions{naustrian}%
772
       \addglossarytocaptions{ngerman}%
773
       \addglossarytocaptions{irish}%
774
       \addglossarytocaptions{italian}%
775
       \addglossarytocaptions{magyar}%
776
       \addglossarytocaptions{hungarian}%
777
778
       \addglossarytocaptions{polish}%
779
       \addglossarytocaptions{spanish}%
       \renewcommand*{\glssettoctitle}[1]{%
780
         \ifcsdef{gls@tr@set@#1@toctitle}%
781
782
           \csuse{gls@tr@set@#1@toctitle}%
783
         }%
784
         {%
785
           \def\glossarytoctitle{\csname @glotype@#1@title\endcsname}%
786
787
         }%
788
       \renewcommand*{\glossaryname}{\translate{Glossary}}%
789
       \renewcommand*{\acronymname}{\translate{Acronyms}}%
790
       \renewcommand*{\entryname}{\translate{Notation (glossaries)}}%
791
       \renewcommand*{\descriptionname}{%
792
793
         \translate{Description (glossaries)}}%
       \renewcommand*{\symbolname}{\translate{Symbol (glossaries)}}%
794
       \renewcommand*{\pagelistname}{%
795
         \translate{Page List (glossaries)}}%
796
797
       \renewcommand*{\glssymbolsgroupname}{%
         \translate{Symbols (glossaries)}}%
798
799
       \renewcommand*{\glsnumbersgroupname}{%
         \translate{Numbers (glossaries)}}%
800
    }{%
801
       \@ifpackageloaded{polyglossia}%
802
       {\RequirePackage{glossaries-polyglossia}}%
803
804
         \@ifpackageloaded{babel}{%
805
           \RequirePackage{glossaries-babel}}{}%
806
       }}
807
808\else
      \@gls@notranslatorhook
809
810\fi
```

\mopostdesc Provide a means to suppress description terminator for a given entry. (Useful for entries with no description.) Has no effect outside the glossaries.

```
811 \DeclareRobustCommand*{\nopostdesc}{}
```

#### \@nopostdesc

Suppress next description terminator.

```
812 \newcommand*{\@nopostdesc}{%
    \let\org@glspostdescription\glspostdescription
    \def\glspostdescription{%
      \let\glspostdescription\org@glspostdescription}%
815
816 }
```

\@no@post@desc Used for comparison purposes.

817 \newcommand\*{\@no@post@desc}{\nopostdesc}

\glspar Provide means of having a paragraph break in glossary entries

818 \newcommand{\glspar}{\par}

\setStyleFile Sets the style file. The relevant extension is appended.

```
819\ifglsxindy
    \newcommand{\setStyleFile}[1]{%
821
      \renewcommand{\istfilename}{#1.xdy}}
822\else
823 \newcommand{\setStyleFile}[1]{%
      \renewcommand{\istfilename}{#1.ist}}
824
825\fi
```

This command only has an effect prior to using \makeglossaries.

826 \@onlypremakeg\setStyleFile

The name of the makeindex or xindy style file is given by \istfilename. This file is created by \writeist (which is used by \makeglossaries) so redefining this command will only have an effect if it is done before \makeglossaries. As from v1.17, use \setStyleFile instead of directly redefining \istfilename.

#### \istfilename

```
827\ifglsxindy
828 \def\istfilename{\jobname.xdy}
829\else
830 \def\istfilename{\jobname.ist}
831\fi
```

The makeglossaries Perl script picks up this name from the auxiliary file. If the name ends with .xdy it calls xindy otherwise it calls makeindex. Since its not required by LTFX, \@istfilename ignores its argument.

#### \@istfilename

```
832 \newcommand*{\@istfilename}[1]{}
```

This command is the value of the page\_compositor makeindex key. Again, any redefinition of this command must take place before \writeist otherwise it will have no effect. As from 1.17, use \glsSetCompositor instead of directly redefining \glscompositor.

```
\glscompositor
                      833 \newcommand*{\glscompositor}{.}
 \glsSetCompositor Sets the compositor.
                      834 \newcommand*{\glsSetCompositor}[1]{%
                           \renewcommand*{\glscompositor}{#1}}
                       Only use before \makeglossaries
                      836 \@onlypremakeg\glsSetCompositor
                         (The page compositor is usually defined as a dash when using makeindex,
                       but most of the standard counters used by LATEX use a full stop as the composi-
                       tor, which is why I have used it as the default.) If xindy is used \glscompositor
                       only affects the arabic-page-numbers location class.
OglsAlphacompositor
                       This is only used by xindy. It specifies the compositor to use when loca-
                       tion numbers are in the form \langle letter \rangle \langle compositor \rangle \langle number \rangle. For example,
                       if \@glsAlphacompositor is set to "." then it allows locations such as A.1
                       whereas if \@glsAlphacompositor is set to "-" then it allows locations such
                      837 \newcommand*{\@glsAlphacompositor}{\glscompositor}
sSetAlphaCompositor Sets the alpha compositor.
                      838 \ifglsxindy
                           \newcommand*\glsSetAlphaCompositor[1]{%
                               \renewcommand*\@glsAlphacompositor{#1}}
                      840
                      841\else
                           \newcommand*\glsSetAlphaCompositor[1]{%
                      843
                             \glsnoxindywarning\glsSetAlphaCompositor}
                      844\fi
                       Can only be used before \makeglossaries
                      845 \@onlypremakeg\glsSetAlphaCompositor
                      Suffix to use for a two page list. This overrides the separator and the closing
       \gls@suffixF
                       page number if set to something other than an empty macro.
                      846 \newcommand*{\gls@suffixF}{}
                      Sets the suffix to use for a two page list.
     \glsSetSuffixF
```

847 \newcommand\*{\glsSetSuffixF}[1]{% 848 \renewcommand\*{\gls@suffixF}{#1}}

Only has an effect when used before \makeglossaries

849 \@onlypremakeg\glsSetSuffixF

\gls@suffixFF Suffix to use for a three page list. This overrides the separator and the closing page number if set to something other than an empty macro.

850 \newcommand\*{\gls@suffixFF}{}

```
\glsSetSuffixFF Sets the suffix to use for a three page list.
```

```
851 \newcommand*{\glsSetSuffixFF}[1]{%
852 \renewcommand*{\gls@suffixFF}{#1}%
853}
```

\glsnumberformat

The command \glsnumberformat indicates the default format for the page numbers in the glossary. (Note that this is not the same as \glossaryentrynumbers, but applies to individual numbers or groups of numbers within an entry's associated number list.) If hyperlinks are defined, it will use \glshypernumber, otherwise it will simply display its argument "as is".

```
854\ifcsundef{hyperlink}%
855 {%
856 \newcommand*{\glsnumberformat}[1]{#1}%
857 }%
858 {%
859 \newcommand*{\glsnumberformat}[1]{\glshypernumber{#1}}%
860 }
```

Individual numbers in an entry's associated number list are delimited using \delimN (which corresponds to the delim\_n makeindex keyword). The default value is a comma followed by a space.

\delimN

```
861 \newcommand{\delimN}{,}
```

A range of numbers within an entry's associated number list is delimited using \delimR (which corresponds to the delim\_r makeindex keyword). The default is an en-dash.

\delimR

```
862 \mbox{newcommand}(\mbox{delimR}{--})
```

The glossary preamble is given by \glossarypreamble. This will appear after the glossary sectioning command, and before the theglossary environment. It is designed to allow the user to add information pertaining to the glossary (e.g. "page numbers in italic indicate the primary definition") therefore \glossarypremable shouldn't be affected by the glossary style. (So if you define your own glossary style, don't have it change \glossarypreamble.) The preamble is empty by default. If you have multiple glossaries, and you want a different preamble for each glossary, you will need to use \printglossary for each glossary type, instead of \printglossaries, and redefine \glossarypreamble before each \printglossary.

```
\glossarypreamble
```

```
863 \newcommand*{\glossarypreamble}{%
864 \csuse{@glossarypreamble@\currentglossary}%
865}
```

\setglossarypreamble

## $\setglossarypreamble[\langle type\rangle] \{\langle text\rangle\}$

Code provided by Michael Pock.

```
866 \newcommand{\setglossarypreamble}[2][\glsdefaulttype]{%
867 \ifglossaryexists{#1}{%
868 \csgdef{@glossarypreamble@#1}{#2}%
869 }{%
870 \GlossariesWarning{%
871 \Glossary '#1' is not defined%
872 }%
873 }%
874}
```

The glossary postamble is given by \glossarypostamble. This is provided to allow the user to add something after the end of the theglossary environment (again, this shouldn't be affected by the glossary style). It is, of course, possible to simply add the text after \printglossary, but if you only want the postamble to appear after the first glossary, but not after subsequent glossaries, you can do something like:

\renewcommand{\glossarypostamble}{For a complete list of terms
see \cite{blah}\gdef\glossarypreamble{}}

\glossarypostamble

875 \newcommand\*{\glossarypostamble}{}

\glossarysection

The sectioning command that starts a glossary is given by \glossarysection. (This does not form part of the glossary style, and so should not be changed by a glossary style.) If \phantomsection is defined, it uses \p@glossarysection, otherwise it uses \@glossarysection.

```
876 \newcommand*{\glossarysection}[2][\@gls@title]{%
     \def\@gls@title{#2}%
878
     \ifcsundef{phantomsection}%
879
       \@glossarysection{#1}{#2}%
880
     }%
881
882
     {%
       \@p@glossarysection{#1}{#2}%
883
     }%
884
     \glsglossarymark{\glossarytoctitle}%
885
886 }
```

\glsglossarymark

Sets the header mark for the glossary. Takes the glossary short (TOC) title as the argument.

```
887 \ifcsundef{glossarymark}%
888 {%
889 \newcommand{\glsglossarymark}[1]{\glossarymark{#1}}
```

```
890 }%
            891 {%
                \@ifclassloaded{memoir}
            892
            893
                  \newcommand{\glsglossarymark}[1]{%
            894
                    \ifglsucmark
            895
                      896
                    \else
            897
                      \markboth{#1}{#1}%
            898
                    \fi
            899
                  }
            900
                }%
            901
            902
                 {%
                  \newcommand{\glsglossarymark}[1]{%
            903
                    \ifglsucmark
            904
                      \@mkboth{\mfirstucMakeUppercase{#1}}{\mfirstucMakeUppercase{#1}}%
            905
            906
                      \@mkboth{#1}{#1}%
            907
                    \fi
            908
            909
                  }
                }
            910
            911 }
\glossarymark Provided for backward compatibility:
            912 \providecommand{\glossarymark}[1]{%
                \ifglsucmark
                  914
            915
                  \@mkboth{#1}{#1}%
            916
                \fi
            917
            918}
```

The required sectional unit is given by \@@glossarysec which was defined by the section package option. The starred form of the command is chosen. If you don't want any sectional command, you will need to redefine \glossarysection. The sectional unit can be changed, if different sectional units are required.

\setglossarysection

```
919 \newcommand*{\setglossarysection}[1]{%
920 \setkeys{glossaries.sty}{section=#1}}
```

The command \@glossarysection indicates how to start the glossary section if \phantomsection is not defined.

\@glossarysection

```
921 \newcommand*{\@glossarysection}[2]{%
922 \ifdefempty\@@glossarysecstar
923 {%
```

```
924 \csname\@@glossarysec\endcsname[#1]{#2}%
925 }%
926 {%
927 \csname\@@glossarysec\endcsname*{#2}%
928 \@gls@toc{#1}{\@@glossarysec}%
929 }%

Do automatic labelling if required
```

930 \@@glossaryseclabel 931}

As \@glossarysection, but put in \phantomsection, and swap where \@gls@toc goes. If using chapters do a \clearpage. This ensures that the hyper link from the table of contents leads to the line above the heading, rather than the line below it.

\@p@glossarysection

```
932 \newcommand*{\@p@glossarysection}[2]{%
933
     \glsclearpage
     \phantomsection
934
     \ifdefempty\@@glossarysecstar
935
       \csname\@@glossarysec\endcsname{#2}%
937
     }%
938
939
     {%
940
       \@gls@toc{#1}{\@@glossarysec}%
         \csname\@@glossarysec\endcsname*{#2}%
941
     }%
942
Do automatic labelling if required
     \@@glossaryseclabel
943
944 }
```

\gls@doclearpage

The \gls@doclearpage command is used to issue a \clearpage (or \cleardoublepage) depending on whether the glossary sectional unit is a chapter. If the sectional unit is something else, do nothing.

```
945 \newcommand*{\gls@doclearpage}{%
     \ifthenelse{\equal{\@@glossarysec}{chapter}}%
946
     {%
947
       \ifcsundef{cleardoublepage}%
948
949
       {%
         \clearpage
950
       }%
951
952
         \ifcsdef{if@openright}%
953
954
             \if@openright
955
               \cleardoublepage
957
             \else
               \clearpage
958
```

```
959
              \fi
          }%
960
           {%
961
              \cleardoublepage
962
          }%
        }%
964
     }%
965
     {}%
966
967 }
```

\glsclearpage

This just calls \gls@doclearpage, but it makes it easier to have a user command so that the user can override it.

```
968 \newcommand*{\glsclearpage}{\gls@doclearpage}
```

The glossary is added to the table of contents if glstoc flag set. If it is set, \@gls@toc will add a line to the .toc file, otherwise it will do nothing. (The first argument to \@gls@toc is the title for the table of contents, the second argument is the sectioning type.)

\@gls@toc

```
969 \newcommand*{\@gls@toc}[2]{%
     \ifglstoc
       \ifglsnumberline
971
972
         \addcontentsline{toc}{#2}{\numberline{}#1}%
         \addcontentsline{toc}{#2}{#1}%
974
       \fi
975
976
     \fi
977 }
```

### 1.4 Xindy

This section defines commands that only have an effect if xindy is used to sort the glossaries.

\glsnoxindywarning

Issues a warning if xindy hasn't been specified. These warnings can be suppressed by redefining \glsnoxindywarning to ignore its argument

```
978 \newcommand*{\glsnoxindywarning}[1]{%
    \GlossariesWarning{Not in xindy mode --- ignoring \string#1}%
979
980 }
```

\@xdyattributes Define list of attributes (\string is used in case the double quote character has been made active)

```
981 \ifglsxindy
    \edef\@xdyattributes{\string"default\string"}%
983\fi
```

```
\@xdyattributelist Comma-separated list of attributes.
                     984\ifglsxindy
                          \edef\@xdyattributelist{}%
                     986\fi
       \@xdylocref Define list of markup location references.
                     987\ifglsxindy
                     988 \def\@xdylocref{}
                     989\fi
    \@gls@ifinlist
                     990 \newcommand*{\@gls@ifinlist}[4]{%
                          \def\@do@ifinlist##1,#1,##2\end@doifinlist{%
                            \def\@gls@listsuffix{##2}%
                     992
                            \ifx\@gls@listsuffix\@empty
                     993
                               #4%
                     994
                            \else
                     995
                     996
                               #3%
                     997
                            \fi
                          }%
                     998
                          \@do@ifinlist,#2,#1,\end@doifinlist
                     999
                    1000 }
                      Need to know all the counters that will be used in location numbers for Xindy.
\GlsAddXdyCounters
                      Argument may be a single counter name or a comma-separated list of counter
                      names.
                    1001 \ifglsxindy
                          \newcommand*{\@xdycounters}{\glscounter}
                    1002
                          \newcommand*\GlsAddXdyCounters[1]{%
                            \@for\@gls@ctr:=#1\do{%
                    1004
                      Check if already in list before adding.
                               \edef\@do@addcounter{%
                                   \noexpand\@gls@ifinlist{\@gls@ctr}{\@xdycounters}{}%
                    1006
                                   {%
                    1007
                    1008
                                      \noexpand\edef\noexpand\@xdycounters{\@xdycounters,%
                                        \noexpand\@gls@ctr}%
                    1009
                                   }%
                    1010
                               }%
                    1011
                    1012
                               \@do@addcounter
                    1013
                            }
                    1014
                      Only has an effect before \writeist:
                          \verb|\@onlypremakeg\GlsAddXdyCounters||
                    1016\else
                          \newcommand*\GlsAddXdyCounters[1]{%
                    1017
                    1018
                            \glsnoxindywarning\GlsAddXdyAttribute
                    1019
```

1020\fi

```
Counters must all be identified before adding attributes.
d@glsaddxdycounters
                     1021 \newcommand*\@disabled@glsaddxdycounters{%
                            \PackageError{glossaries}{\string\GlsAddXdyCounters\space
                     1022
                            can't be used after \string\GlsAddXdyAttribute}{Move all
                     1023
                            occurrences of \string\GlsAddXdyCounters\space before the first
                     1024
                     1025
                            instance of \string\GlsAddXdyAttribute}%
                     1026 }
\GlsAddXdyAttribute Adds an attribute.
                     1027\ifglsxindy
                       First define internal command that adds an attribute for a given counter (2nd
                       argument is the counter):
                           \newcommand*\@glsaddxdyattribute[2]{%
                       Add to xindy attribute list
                             \edef\@xdyattributes{\@xdyattributes ^^J \string"#1\string" ^^J
                     1029
                     1030
                                \string"#2#1\string"}%
                       Add to xindy markup location.
                             \expandafter\toks@\expandafter{\@xdylocref}%
                     1031
                             \edef\@xdylocref{\the\toks@ ^^J%
                     1032
                                (markup-locref
                     1033
                     1034
                                :open \string"\string~n%
                                  \expandafter\string\csname glsX#2X#1\endcsname
                     1035
                                  \string" ^^J
                     1036
                                :close \string"\string" ^^J
                     1037
                                :attr \string"#2#1\string")}%
                     1038
                       Define associated attribute command \gls X \langle counter \rangle X \langle attribute \rangle \{\langle Hprefix \rangle\} \{\langle n \rangle\}
                     1039
                             \expandafter\gdef\csname glsX#2X#1\endcsname##1##2{%
                                 \setentrycounter[##1]{#2}\csname #1\endcsname{##2}%
                     1040
                             }%
                     1041
                     1042
                           }
                       High-level command:
                           \newcommand*\GlsAddXdyAttribute[1]{%
                       Add to comma-separated attribute list
                             \ifx\@xdyattributelist\@empty
                     1044
                                \edef\@xdyattributelist{#1}%
                     1045
                     1046
                             \else
                                \edef\@xdyattributelist{\@xdyattributelist,#1}%
                     1048
                             \fi
                       Iterate through all specified counters and add counter-dependent attributes:
                             \@for\@this@counter:=\@xdycounters\do{%
                     1049
                                \protected@edef\gls@do@addxdyattribute{%
                     1050
                                  \noexpand\@glsaddxdyattribute{#1}{\@this@counter}%
                     1051
                     1052
                     1053
                                \gls@do@addxdyattribute
```

}%

```
All occurrences of \GlsAddXdyCounters must be used before this command
                             \let\GlsAddXdyCounters\@disabled@glsaddxdycounters
                     1055
                     1056
                           }
                      Only has an effect before \writeist:
                           \@onlypremakeg\GlsAddXdyAttribute
                     1058 \else
                           \newcommand*\GlsAddXdyAttribute[1]{%
                     1059
                             \glsnoxindywarning\GlsAddXdyAttribute}
                     1060
                     1061\fi
                     Add known attributes for all defined counters
redefinedattributes
                     1062\ifglsxindy
                     1063 \newcommand*{\@gls@addpredefinedattributes}{%
                           \GlsAddXdyAttribute{glsnumberformat}
                     1065
                           \GlsAddXdyAttribute{textrm}
                           \GlsAddXdyAttribute{textsf}
                     1066
                     1067
                           \GlsAddXdyAttribute{texttt}
                           \GlsAddXdyAttribute{textbf}
                     1068
                           \GlsAddXdyAttribute{textmd}
                     1069
                     1070
                           \GlsAddXdyAttribute{textit}
                     1071
                           \GlsAddXdyAttribute{textup}
                           \GlsAddXdyAttribute{textsl}
                     1072
                           \GlsAddXdyAttribute{textsc}
                     1073
                           \GlsAddXdyAttribute{emph}
                     1074
                           \GlsAddXdyAttribute{glshypernumber}
                     1075
                     1076
                           \GlsAddXdyAttribute{hyperrm}
                           \GlsAddXdyAttribute{hypersf}
                     1077
                           \GlsAddXdyAttribute{hypertt}
                     1078
                     1079
                           \GlsAddXdyAttribute{hyperbf}
                     1080
                           \GlsAddXdyAttribute{hypermd}
                           \GlsAddXdyAttribute{hyperit}
                     1081
                           \GlsAddXdyAttribute{hyperup}
                     1082
                           \GlsAddXdyAttribute{hypersl}
                     1083
                           \GlsAddXdyAttribute{hypersc}
                     1084
                           \GlsAddXdyAttribute{hyperemph}
                     1085
                     1086 }
                           \let\@gls@addpredefinedattributes\relax
                     1088
                     1089\fi
\@xdyuseralphabets
                     List of additional alphabets
                     1090 \def\@xdyuseralphabets{}
                      \GlsAddXdyAlphabet{\langle name \rangle}{\langle definition \rangle} adds a new alphabet called \langle name \rangle.
\GlsAddXdyAlphabet
                      The definition must use xindy syntax.
                     1091 \ifglsxindy
                           \newcommand*{\GlsAddXdyAlphabet}[2]{%
```

\edef\@xdyuseralphabets{%

This code is only required for xindy:

1100 \ifglsxindy

ls@xdy@locationlist List of predefined location names.

```
\newcommand*{\@gls@xdy@locationlist}{%
1101
        roman-page-numbers,%
1103
        Roman-page-numbers,%
        arabic-page-numbers,%
1104
1105
        alpha-page-numbers,%
        Alpha-page-numbers,%
1106
        Appendix-page-numbers,%
1107
1108
        arabic-section-numbers%
1109
     }
```

Each location class  $\langle name \rangle$  has the format stored in  $\@gls@xdy@Lclass@\langle name \rangle$ . Set up predefined formats.

@roman-page-numbers

Lower case Roman numerals (i, ii, ...). In the event that  $\mbox{roman}$  has been redefined to produce a fancy form of roman numerals, attempt to work out how it will be written to the output file.

```
\protected@edef\@gls@roman{\@roman{0\string"
1110
1111
          \string"roman-numbers-lowercase\string" :sep \string"}}%
     \@onelevel@sanitize\@gls@roman
1112
     \edef\@tmp{\string" \string"roman-numbers-lowercase\string"
1113
           :sep \string"}%
1114
1115
     \@onelevel@sanitize\@tmp
1116
     \ifx\@tmp\@gls@roman
1117
       \expandafter
         \edef\csname @gls@xdy@Lclass@roman-page-numbers\endcsname{%
1118
            \string"roman-numbers-lowercase\string"%
1119
1120
         }%
1121
     \else
1122
        \expandafter
          \edef\csname @gls@xdy@Lclass@roman-page-numbers\endcsname{
1123
            :sep \string"\@gls@roman\string"%
1124
         }%
1125
1126
     \fi
```

@Roman-page-numbers

Upper case Roman numerals (I, II, ...).

```
1127 \expandafter\def\csname @gls@xdy@Lclass@Roman-page-numbers\endcsname{%
1128 \string"roman-numbers-uppercase\string"%
1129 }%
```

```
arabic-page-numbers Arabic numbers (1, 2, \ldots).
                     1130
                           \expandafter\def\csname @gls@xdy@Lclass@arabic-page-numbers\endcsname{%
                     1131
                             \string"arabic-numbers\string"%
                     1132
                     Lower case alphabetical (a, b, \ldots).
@alpha-page-numbers
                           \expandafter\def\csname @gls@xdy@Lclass@alpha-page-numbers\endcsname{%
                     1133
                             \string"alpha\string"%
                     1134
                     1135
QAlpha-page-numbers Upper case alphabetical (A, B, ...).
                           \expandafter\def\csname @gls@xdy@Lclass@Alpha-page-numbers\endcsname{%
                     1137
                             \string"ALPHA\string"%
                     1138
                           }%
                      Appendix style locations (e.g. A-1, A-2, ..., B-1, B-2, ...). The separator is given
pendix-page-numbers
                       by \@glsAlphacompositor.
                           \expandafter\def\csname @gls@xdy@Lclass@Appendix-page-numbers\endcsname{%
                             \string"ALPHA\string"
                     1140
                             :sep \string"\@glsAlphacompositor\string"
                     1141
                     1142
                             \string"arabic-numbers\string"%
                     1143
                           }
                      Section number style locations (e.g. 1.1, 1.2, ...). The compositor is given by
bic-section-numbers
                       \glscompositor.
                     1144
                           \expandafter\def\csname @gls@xdy@Lclass@arabic-section-numbers\endcsname{%
                             \string"arabic-numbers\string"
                     1145
                               :sep \string"\glscompositor\string"
                     1146
                             \string"arabic-numbers\string"%
                     1147
                           }%
                     1148
                     List of additional location definitions (separated by ^^J)
xdyuserlocationdefs
                           \def\@xdyuserlocationdefs{}
                     List of additional user location names
dyuserlocationnames
                           \def\@xdyuserlocationnames{}
                         End of xindy-only block:
                     1151\fi
                       \GlsAddXdyLocation[\langle prefix-loc \rangle] \{\langle name \rangle\} \{\langle definition \rangle\}  Define a new lo-
\GlsAddXdyLocation
                       cation called (name). The definition must use xindy syntax. (Note that this
                       doesn't check to see if the location is already defined. That is left to xindy to
                       complain about.)
                     1152\ifglsxindy
                            \newcommand*{\GlsAddXdyLocation}[3][]{%
```

 $\left(\frac{0}{2}\right)^{\#1}$ 

```
1155
                             \ifx\@gls@tmp\@empty
                               \edef\@xdyuserlocationdefs{%
                    1156
                                  \@xdyuserlocationdefs ^^J%
                    1157
                                   (define-location-class \string"#2\string"^^J\space\space
                    1158
                                   \space(:sep \string"{}\glsopenbrace\string" #3
                    1159
                                          :sep \string"\glsclosebrace\string"))
                    1160
                               }%
                    1161
                             \else
                    1162
                               \edef\@xdyuserlocationdefs{%
                    1163
                                  \@xdyuserlocationdefs ^^J%
                    1164
                                   (define-location-class \string"#2\string"^^J\space\space
                    1165
                                  \space(:sep "\glsopenbrace"
                    1166
                    1167
                                          :sep "\glsclosebrace\glsopenbrace" #3
                    1168
                                          :sep "\glsclosebrace"))
                    1169
                               }%
                    1170
                             \fi
                    1171
                    1172
                             \edef\@xdyuserlocationnames{%
                                \@xdyuserlocationnames^^J\space\space\space
                    1173
                    1174
                                \string"#1\string"}%
                      Only has an effect before \writeist:
                          \@onlypremakeg\GlsAddXdyLocation
                    1177\else
                           \newcommand*{\GlsAddXdyLocation}[2]{%
                             \glsnoxindywarning\GlsAddXdyLocation}
                    1179
                    1180\fi
ylocationclassorder Define location class order
                    1181 \ifglsxindy
                          \edef\@xdylocationclassorder{^^J\space\space\space
                    1182
                            \string"roman-page-numbers\string"^^J\space\space\space
                    1183
                            \string"arabic-page-numbers\string"^^J\space\space\space
                    1184
                            \string"arabic-section-numbers\string"^^J\space\space\space
                    1185
                            \verb|\string| alpha-page-numbers \verb|\string| ``J\space\space \|
                    1186
                            \string"Roman-page-numbers\string"^^J\space\space\space
                    1187
                            \string"Alpha-page-numbers\string"^^J\space\space\space
                    1188
                            \string"Appendix-page-numbers\string"
                    1189
                            \@xdyuserlocationnames^^J\space\space\space
                    1190
                            \string"see\string"
                    1191
                    1192
                    1193\fi
                      Change the location order.
yLocationClassOrder
                    1194\ifglsxindy
                         \newcommand*\GlsSetXdyLocationClassOrder[1]{%
                            \def\@xdylocationclassorder{#1}}
                    1196
```

```
1197\else
                    1198 \newcommand*\GlsSetXdyLocationClassOrder[1]{%
                    1199
                           \glsnoxindywarning\GlsSetXdyLocationClassOrder}
                    1200\fi
     \@xdysortrules Define sort rules
                    1201 \ifglsxindy
                    1202 \def\@xdysortrules{}
                    1203\fi
   \GlsAddSortRule Add a sort rule
                    1204\ifglsxindy
                         \newcommand*\GlsAddSortRule[2]{%
                           \expandafter\toks@\expandafter{\@xdysortrules}%
                    1206
                    1207
                           \protected@edef\@xdysortrules{\the\toks@ ^^J
                    1208
                             (sort-rule \string"#1\string" \string"#2\string")}%
                    1209 }
                    1210\else
                    1211 \newcommand*\GlsAddSortRule[2]{%
                           \glsnoxindywarning\GlsAddSortRule}
                    1213\fi
\@xdyrequiredstyles Define list of required styles (this should be a comma-separated list of xindy
                    1214\ifglsxindy
                    1215 \def\@xdyrequiredstyles{tex}
                    1216\fi
   \GlsAddXdyStyle Add a xindy style to the list of required styles
                    1217\ifglsxindy
                    1218 \newcommand*\GlsAddXdyStyle[1]{%
                    1219
                           \edef\@xdyrequiredstyles{\@xdyrequiredstyles,#1}}%
                    1220\else
                    1221 \newcommand*\GlsAddXdyStyle[1]{%
                    1222
                           \glsnoxindywarning\GlsAddXdyStyle}
                    1223\fi
  \GlsSetXdyStyles Reset the list of required styles
                    1224\ifglsxindy
                    1225 \newcommand*\GlsSetXdyStyles[1]{%
                    1226
                           \edef\@xdyrequiredstyles{#1}}
                    1227\else
                    1228 \newcommand*\GlsSetXdyStyles[1]{%
                           \glsnoxindywarning\GlsSetXdyStyles}
                    1230\fi
```

\findrootlanguage

This used to determine the root language, using a bit of trickery since babel doesn't supply the information, but now that babel is once again actively maintained, we can't do this any more, so \findrootlanguage is no longer available. Now provide a command that does nothing (in case it's been patched), but this may be removed completely in the future.

1231 \newcommand\*{\findrootlanguage}{}

\@xdylanguage

The xindy language setting is required by makeglossaries, so provide a command for makeglossaries to pick up the information from the auxiliary file. This command is not needed by the glossaries package, so define it to ignore its arguments.

1232 \def\@xdylanguage#1#2{}

\GlsSetXdyLanguage

Define a command that allows the user to set the language for a given glossary type. The first argument indicates the glossary type. If omitted the main glossary is assumed.

```
1233\ifglsxindy
     \newcommand*\GlsSetXdyLanguage[2][\glsdefaulttype]{%
1234
     \ifglossaryexists{#1}{%
1235
1236
       \expandafter\def\csname @xdy@#1@language\endcsname{#2}%
1237
       \PackageError{glossaries}{Can't set language type for
1238
1239
       glossary type '#1' --- no such glossary}{%
       You have specified a glossary type that doesn't exist}}}
1240
1241 \else
     \newcommand*\GlsSetXdyLanguage[2][]{%
1242
       \glsnoxindywarning\GlsSetXdyLanguage}
1243
1244\fi
```

\@gls@codepage

The xindy codepage setting is required by makeglossaries, so provide a command for makeglossaries to pick up the information from the auxiliary file. This command is not needed by the glossaries package, so define it to ignore its arguments.

1245 \def\@gls@codepage#1#2{}

\GlsSetXdyCodePage Define command to set the code page.

1246\ifglsxindy

```
\newcommand*{\GlsSetXdyCodePage}[1]{%
1247
       \renewcommand*{\gls@codepage}{#1}%
1248
     }
1249
 Suggested by egreg:
     \AtBeginDocument{%
1250
       \ifx\gls@codepage\@empty
1251
          \@ifpackageloaded{fontspec}{\def\gls@codepage{utf8}}{}%
1252
1253
       \fi
1254
     }
```

```
1255 \else
1256 \newcommand*{\GlsSetXdyCodePage}[1]{%
1257 \glsnoxindywarning\GlsSetXdyCodePage}
1258 \fi
```

\@xdylettergroups Store letter group definitions.

```
1259\ifglsxindy
1260
     \ifgls@xindy@glsnumbers
1261
       \def\@xdylettergroups{(define-letter-group
1262
          \string"glsnumbers\string"^^J\space\space\space
          :prefixes (\string"0\string" \string"1\string"
1263
          \string"2\string" \string"3\string" \string"4\string"
1264
          \string"5\string" \string"6\string" \string"7\string"
          \string"8\string" \string"9\string")^^J\space\space
1266
          :before \string"\@glsfirstletter\string")}
1267
1268
     \else
     \def\@xdylettergroups{}
1269
     \fi
1270
1271\fi
```

\GlsAddLetterGroup Add a new letter group. The first argument is the name of the letter group. The second argument is the xindy code specifying prefixes and ordering.

```
1272 \newcommand*\GlsAddLetterGroup[2]{%
1273 \expandafter\toks@\expandafter\\@xdylettergroups}\%
1274 \protected@edef\@xdylettergroups\\the\toks@^^J\%
1275 \(define-letter-group \string"#1\string"^^J\space\space\2)\}\%
```

### 1.5 Loops and conditionals

\forallglossaries

To iterate through all glossaries (or comma-separated list of glossary names given in optional argument) use:

```
\forallglossaries[\langle glossary list\rangle] \{\langle cmd\rangle\} \{\langle code\rangle\}
```

where  $\langle cmd \rangle$  is a control sequence which will be set to the name of the glossary in the current iteration.

\forglsentries To iterate through all entries in a given glossary use:

```
\forglsentries [\langle type \rangle] \{\langle cmd \rangle\} \{\langle code \rangle\}
```

where  $\langle type \rangle$  is the glossary label and  $\langle cmd \rangle$  is a control sequence which will be set to the entry label in the current iteration.

```
1280 \newcommand*{\forglsentries}[3][\glsdefaulttype]{%
```

```
1281 \edef\@@glo@list{\csname glolist@#1\endcsname}%
1282 \@for#2:=\@@glo@list\do
1283 {%
1284 \ifdefempty{#2}{}{#3}%
1285 }%
1286}
```

\forallglsentries

To iterate through all glossary entries over all glossaries listed in the optional argument (the default is all glossaries) use:

```
\forallglsentries[\langle glossary list\rangle] \{\langle cmd\rangle\} \{\langle code\rangle\}
```

Within  $\forall glsentries$ , the current glossary type is given by  $\colon glos.$ 

```
1287 \newcommand*{\forallglsentries}[3][\@glo@types]{%
1288 \expandafter\forallglossaries\expandafter[#1]{\@@this@glo@}%
1289 {%
1290 \forglsentries[\@@this@glo@]{#2}{#3}%
1291 }%
1292}
```

\ifglossaryexists

To check to see if a glossary exists use:

```
\verb|\ifglossaryexists{|\langle type\rangle|} {\langle true-text\rangle} {\langle false-text\rangle}|
```

```
where \langle type \rangle is the glossary's label.
```

```
1293 \newcommand{\ifglossaryexists}[3]{%  
1294 \ifcsundef{@glotype@#1@out}{#3}{#2}%  
1295}
```

Since the label is used to form the name of control sequences, by default UTF8 etc characters can't be used in the label. A possible workaround is to use \scantokens, but commands such as \glsentrytext will no longer be usable in sectioning, caption etc commands. If the user really wants to be able to construct a label with UTF8 characters, allow them the means to do so (but on their own head be it, if they then use entries in \section etc). This can be done via:

```
\renewcommand*{\glsdetoklabel}[1]{\scantokens{#1\noexpand}}
```

(Note, don't use \detokenize or it will cause commands like \glsaddall to fail.) Since redefining \glsdetoklabel can cause things to go badly wrong, I'm not going to mention it in the main user guide. Only advanced users who know what they're doing ought to attempt it.

\glsdetoklabel

```
1296 \newcommand*{\glsdetoklabel}[1]{#1}
```

\ifglsentryexists To check to see if a glossary entry has been defined use:

# 

where  $\langle label \rangle$  is the entry's label.

```
1297 \newcommand{\ifglsentryexists}[3]{%  
1298 \ifcsundef{glo@\glsdetoklabel{#1}@name}{#3}{#2}%  
1299}
```

\ifglsused To determine if given glossary entry has been used in the document text yet

where  $\langle label \rangle$  is the entry's label. If true it will do  $\langle true\ text \rangle$  otherwise it will do  $\langle false\ text \rangle$ .

```
\label{localized} $$1300 \end{$1300 \end{$
```

The following two commands will cause an error if the given condition fails:

#### \glsdoifexists

```
\glsdoifexists{\langle label \rangle}{\langle code \rangle}
```

Generate an error if entry specified by  $\langle label \rangle$  doesn't exists, otherwise do  $\langle code \rangle$ .

```
1303\newcommand{\glsdoifexists}[2]{%
1304 \ifglsentryexists{#1}{#2}{%
1305 \PackageError{glossaries}{Glossary entry '\glsdetoklabel{#1}',
1306 has not been defined}{You need to define a glossary entry before you
1307 can use it.}}%
1308}
```

\glsdoifnoexists

 $\glsdoifnoexists{\langle label\rangle}{\langle code\rangle}$ 

The opposite: only do second argument if the entry doesn't exists. Generate an error message if it exists.

```
1309\newcommand{\glsdoifnoexists}[2]{%
1310 \ifglsentryexists{#1}{%
1311 \PackageError{glossaries}{Glossary entry '\glsdetoklabel{#1}' has already
1312 been defined}{}}{#2}%
1313}
```

#### $\glsdoifexistsorwarn$

```
\glsdoifexistsorwarn\{\langle label\rangle\}\{\langle code\rangle\}
```

Generate a warning if entry specified by  $\langle label \rangle$  doesn't exists, otherwise do  $\langle code \rangle$ .

```
1314 \newcommand{\glsdoifexistsorwarn}[2]{%
                        \ifglsentryexists{#1}{#2}{%
                           \GlossariesWarning{Glossary entry '\glsdetoklabel{#1}',
                   1316
                             has not been defined}%
                   1317
                   1318
                        }%
                   1319}
\left(\frac{\langle label \rangle}{\langle true \ part \rangle}\right)
                   1320 \newcommand{\ifglshaschildren}[3]{%
                        \glsdoifexists{#1}%
                   1321
                   1322
                        {%
                   1323
                            \def\do@glshaschildren{#3}%
                            \edef\@gls@thislabel{\glsdetoklabel{#1}}%
                   1324
                            \expandafter\forglsentries\expandafter
                   1325
                              [\csname glo@\@gls@thislabel @type\endcsname]
                   1326
                            {\glo@label}%
                   1327
                            {%
                   1328
                              \letcs\glo@parent{glo@\glo@label @parent}%
                   1329
                              \ifdefequal\@gls@thislabel\glo@parent
                   1330
                   1331
                              {%
                                \def\do@glshaschildren{#2}%
                   1332
                   1333
                                \@endfortrue
                              }%
                   1334
                              {}%
                   1335
                            }%
                   1336
                   1337
                            \do@glshaschildren
                   1338
                        }%
                   1339 }
```

\ifglshasparent

 $\left\langle ifglshasparent{\langle label \rangle}{\langle true\ part \rangle}{\langle false\ part \rangle}$ 

```
1340 \newcommand{\ifglshasparent}[3]{%
                 \glsdoifexists{#1}%
                 {%
            1342
                   \ifcsempty{glo@\glsdetoklabel{#1}@parent}{#3}{#2}%
            1343
                 }%
            1344
            1345 }
            \ifglshasdesc
            1346 \newcommand*{\ifglshasdesc}[3]{%
                 \ifcsempty{glo@\glsdetoklabel{#1}@desc}%
                 {#3}%
            1348
                 {#2}%
            1349
            1350 }
```

ifglsdescsuppressed

\ifglsdescsuppressed{ $\langle label \rangle$ }{ $\langle true\ part \rangle$ }{ $\langle false\ part \rangle$ } Does  $\langle true\ part \rangle$  if the description is just \nopostdesc otherwise does  $\langle false\ part \rangle$ .

```
1351 \newcommand*{\ifglsdescsuppressed}[3]{%
                   \label{thm:condition} 1352 $$ \ifcsequal{glo@\glsdetoklabel{#1}@desc}{@no@post@desc}% $$
                        {#2}%
                   1353
                          {#3}%
                   1354
                   1355 }
\left( label \right)  \left( label \right)  \left( label \right) 
                   1356 \newcommand*{\ifglshassymbol}[3]{%
                          \letcs{\@glo@symbol}{glo@\glsdetoklabel{#1}@symbol}%
                          \ifdefempty\@glo@symbol
                   1358
                   1359
                          {#3}%
                   1360
                            \ifdefequal\@glo@symbol\@gls@default@value
                   1361
                            {#3}%
                   1362
                            {#2}%
                   1363
                         }%
                   1364
                   1365 }
  \left(\frac{\langle label \rangle}{\langle true\ part \rangle}\right)
                   1366 \newcommand*{\ifglshaslong}[3]{%
                          \letcs{\@glo@long}{glo@\glsdetoklabel{#1}@long}%
                   1368
                          \ifdefempty\@glo@long
                          {#3}%
                   1369
                          {%
                   1370
                            \ifdefequal\@glo@long\@gls@default@value
                   1371
                            {#3}%
                   1372
                            {#2}%
                   1373
                         }%
                   1374
                   1375 }
                   \left( \left( label \right) \right) \left( \left( true \ part \right) \right) \left( \left( false \ part \right) \right)
 \ifglshasshort
                   1376 \newcommand*{\ifglshasshort}[3]{%
                          \letcs{\@glo@short}{glo@\glsdetoklabel{#1}@short}%
                   1377
                   1378
                          \ifdefempty\@glo@short
                   1379
                          {#3}%
                          {%
                   1380
                            \ifdefequal\@glo@short\@gls@default@value
                   1381
                   1382
                            {#3}%
                   1383
                            {#2}%
                   1384
                         }%
                   1385 }
                       \left(\frac{\langle field \rangle}{\langle label \rangle}\right) = \left(\frac{\langle false \ part \rangle}{\langle false \ part \rangle}
  \ifglshasfield
                   1386 \newcommand*{\ifglshasfield}[4]{%
                   1387
                          \glsdoifexists{#2}%
                   1388
                          {%
                   1389
                            \letcs{\@glo@thisvalue}{glo@\glsdetoklabel{#2}@#1}%
```

```
First check supplied field label is defined.
        \ifdef\@glo@thisvalue
1390
        {%
1391
 Is defined, so now check if empty.
          \ifdefempty\@glo@thisvalue
          {%
1393
 Is empty, so doesn't have field set.
             #4%
          }%
1395
          {%
1396
 Not empty, so check if set to \@gls@default@value
             \ifdefequal\@glo@thisvalue\@gls@default@value{#4}{#3}%
1397
          }%
1398
        }%
1399
        {%
1400
 Field given isn't defined, so check if mapping exists.
           \verb|\gls@fetchfield{\gls@thisfield}{#1}||
 If \@gls@thisfield is defined, we've found a map. If not, the field supplied
 doesn't exist.
           \ifdef\@gls@thisfield
1402
           {%
1403
 Is defined, so now check if empty.
              \letcs{\@glo@thisvalue}{glo@\glsdetoklabel{#2}@\@gls@thisfield}%
1404
              \ifdefempty\@glo@thisvalue
1405
              {%
1406
 Is empty so field hasn't been set.
                #4%
1407
              }%
1408
              {%
1409
 Isn't empty so check if it's been set to \@gls@default@value.
                \ifdefequal\@glo@thisvalue\@gls@default@value{#4}{#3}%
1410
1411
              }%
1412
           }%
           {%
1413
 Not defined.
1414
              \GlossariesWarning{Unknown entry field '#1'}%
1415
           }%
1416
        }%
1417
```

1418 }%

1419 }

## 1.6 Defining new glossaries

A comma-separated list of glossary names is stored in \@glo@types. When a new glossary type is created, its identifying name is added to this list. This is used by commands that iterate through all glossaries (such as \makeglossaries and \printglossaries).

\@glo@types

```
1420 \newcommand*{\@glo@types}{,}
```

provide@newglossary

If the user removes the glossary package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file

```
1421 \newcommand*\@gls@provide@newglossary{%
     \protected@write\@auxout{}{\string\providecommand\string\@newglossary[4]{}}%
 Only need to do this once.
     \let\@gls@provide@newglossary\relax
```

1424 }

\defglsentryfmt Allow different glossaries to have different display styles.

```
1425 \newcommand*{\defglsentryfmt}[2][\glsdefaulttype]{%
     \csgdef{gls@#1@entryfmt}{#2}%
1427 }
```

\gls@doentryfmt

1428 \newcommand\*{\gls@doentryfmt}[1]{\csuse{gls@#1@entryfmt}}

A new glossary type is defined using \newglossary. Syntax:

```
\newglossary[\langle log-ext\rangle] \{\langle name\rangle\} \{\langle in-ext\rangle\} \{\langle out-ext\rangle\}
{\langle title \rangle} [\langle counter \rangle]
```

where  $\langle log\text{-}ext\rangle$  is the extension of the makeindex transcript file,  $\langle in\text{-}ext\rangle$  is the extension of the glossary input file (read in by \printglossary and created by makeindex), (out-ext) is the extension of the glossary output file which is read in by makeindex (lines are written to this file by the \glossary command), \(\lambda title \rangle\) is the title of the glossary that is used in \glossarysection and (counter) is the default counter to be used by entries belonging to this glossary. The makeglossaries Perl script reads in the relevant extensions from the auxiliary file, and passes the appropriate file names and switches to makeindex.

\newglossary

```
1429 \newcommand*{\newglossary}[5][glg]{%
1430 \ifglossaryexists{#2}%
1431 {%
      \PackageError{glossaries}{Glossary type '#2' already exists}{%
1432
      You can't define a new glossary called '#2' because it already
```

```
1434
      exists}%
1435 }%
1436 {%
 Check if default has been set
     \ifundef\glsdefaulttype
       \gdef\glsdefaulttype{#2}%
1439
     }{}%
1440
 Add this to the list of glossary types:
     Define a comma-separated list of labels for this glossary type, so that all the
 entries for this glossary can be reset with a single command. When a new entry
 is created, its label is added to this list.
     \expandafter\gdef\csname glolist@#2\endcsname{,}%
```

```
1442
```

Store details of this new glossary type:

```
\expandafter\def\csname @glotype@#2@in\endcsname{#3}%
1443
    \expandafter\def\csname @glotype@#2@out\endcsname{#4}%
1444
1445
    \expandafter\def\csname @glotype@#2@title\endcsname{#5}%
    \@gls@provide@newglossary
1446
    1447
```

How to display this entry in the document text (uses \glsentry by default). This can be redefined by the user later if required (see \defglsentry). This may already have been defined if this has been specified as a list of acronyms.

```
\ifcsundef{gls@#2@entryfmt}%
1448
1449
        \defglsentryfmt[#2]{\glsentryfmt}%
1450
     }%
1451
     {}%
1452
```

Define sort counter if required:

```
\@gls@defsortcount{#2}%
```

Find out if the final optional argument has been specified, and use it to set the counter associated with this glossary. (Uses \glscounter if no optional argument is present.)

```
\@ifnextchar[{\@gls@setcounter{#2}}%
       {\@gls@setcounter{#2}[\glscounter]}}%
1455
1456 }
```

\altnewglossary

```
1457 \newcommand*{\altnewglossary}[3]{%
                                                                                                                                              \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{$\sim$}} \ensuremath{\m
1459 }
```

Only define new glossaries in the preamble:

```
1460 \@onlypreamble{\newglossary}
```

Only define new glossaries before \makeglossaries

```
1461 \@onlypremakeg\newglossary
```

\Onewglossary is used to specify the file extensions for the makeindex input, output and transcript files. It is written to the auxiliary file by \newglossary. Since it is not used by \MTFX, \Onewglossary simply ignores its arguments.

\@newglossary

```
1462 \newcommand*{\@newglossary}[4]{}
```

Store counter to be used for given glossary type (the first argument is the glossary label, the second argument is the name of the counter):

\@gls@setcounter

```
1463 \def\@gls@setcounter#1[#2]{%
1464 \expandafter\def\csname @glotype@#1@counter\endcsname{#2}%
Add counter to xindy list, if not already added:
1465 \ifglsxindy
1466 \GlsAddXdyCounters{#2}%
1467 \fi
1468}
```

Get counter associated with given glossary (the argument is the glossary label):

## \@gls@getcounter

```
1469 \newcommand*{\@gls@getcounter}[1]{%
1470 \csname @glotype@#1@counter\endcsname
1471}
```

Define the main glossary. This will be the first glossary to be displayed when using \printglossaries.

```
1472 \glsdefmain
```

Define the "acronym" glossaries if required.

```
1473 \@gls@do@acronymsdef
```

Define the "symbols", "numbers" and "index" glossaries if required.

```
1474 \@gls@do@symbolsdef
1475 \@gls@do@numbersdef
1476 \@gls@do@indexdef
```

### 1.7 Defining new entries

New glossary entries are defined using \newglossaryentry. This command requires a label and a key-value list that defines the relevant information for that entry. The definition for these keys follows. Note that the name, description

and symbol keys will be sanitized later, depending on the value of the package option sanitize (this means that if some of the keys haven't been defined, they can be constructed from the name and description key before they are sanitized).

The name key indicates the name of the term being defined. This is how the name term will appear in the glossary. The name key is required when defining a new glossary entry.

```
1477 \define@key{glossentry}{name}{%
1478 \def \@glo@name{#1}%
1479 }
```

description The description key is usually only used in the glossary, but can be made to appear in the text by redefining \glsentryfmt or using \defglsentryfmt. The description key is required when defining a new glossary entry. If a long description is required, use \longnewglossaryentry instead of \newglossaryentry.

```
1480 \define@key{glossentry}{description}{%
1481 \def\@glo@desc{#1}%
1482 }
```

#### descriptionplural

```
1483 \define@key{glossentry}{descriptionplural}{%
1484 \def\@glo@descplural{#1}%
1485 }
```

The sort key needs to be sanitized here (the sort key is provided for makeindex's sort benefit, not for use in the document). The sort key is optional when defining a new glossary entry. If omitted, the value is given by  $\langle name \rangle \langle description \rangle$ .

```
1486 \define@key{glossentry}{sort}{%
1487 \def \@glo@sort{#1}}
```

text The text key determines how the term should appear when used in the document (i.e. outside of the glossary). If omitted, the value of the name key is used instead.

```
1488 \define@key{glossentry}{text}{%
1489 \def \@glo@text{#1}%
1490 }
```

plural The plural key determines how the plural form of the term should be displayed in the document. If omitted, the plural is constructed by appending \glspluralsuffix to the value of the text key.

```
1491 \define@key{glossentry}{plural}{%
1492 \ensuremath{\mbox{def}\ensuremath{\mbox{0glo@plural}{\#1}}}
1493 }
```

first The first key determines how the entry should be displayed in the document when it is first used. If omitted, it is taken to be the same as the value of the text key.

```
1494 \define@key{glossentry}{first}{%
1495 \def\@glo@first{#1}%
1496}
```

firstplural

The firstplural key is used to set the plural form for first use, in the event that the plural is required the first time the term is used. If omitted, it is constructed by appending \glspluralsuffix to the value of the first key.

```
1497\define@key{glossentry}{firstplural}{%
1498\def\@glo@firstplural{#1}%
1499}
```

\@gls@default@value

1500 \newcommand\*{\@gls@default@value}{\relax}

symbol

The symbol key is ignored by most of the predefined glossary styles, and defaults to \relax if omitted. It is provided for glossary styles that require an associated symbol, as well as a name and description. To make this value appear in the glossary, you need to redefine \glossentry. If you want this value to appear in the text when the term is used by commands like \gls, you will need to change \glsentryfmt (or use for \defglsentryfmt individual glossaries).

```
1501 \define@key{glossentry}{symbol}{%
1502 \def \@glo@symbol{#1}%
1503 }
```

symbolplural

```
1504\define@key{glossentry}{symbolplural}{%
1505\def\@glo@symbolplural{#1}%
1506}
```

type The type key specifies to which glossary this entry belongs. If omitted, the default glossary is used.

```
1507 \define@key{glossentry}{type}{%
1508 \def\@glo@type{#1}}
```

counter The counter key specifies the name of the counter associated with this glossary entry:

```
1509\define@key{glossentry}{counter}{%
1510 \ifcsundef{c@#1}%
1511 {%
1512 \PackageError{glossaries}%
1513 {There is no counter called '#1'}%
1514 {%
1515 The counter key should have the name of a valid counter
1516 as its value%
```

```
}%
                     1518
                     1519
                           \def\@glo@counter{#1}%
                     1520
                          }%
                     1521
                     1522 }
                 see The see key specifies a list of cross-references
                     {\tt 1523 \backslash define@key\{glossentry\}\{see\}\{\%\}}
                          \gls@checkseeallowed
                     1525
                          \def\@glo@see{#1}%
                          \@glo@seeautonumberlist
                     1526
                     1527 }
gls@checkseeallowed
                     1528 \newcommand*{\gls@checkseeallowed}{%
                     1529
                          \PackageError{glossaries}%
                          {'see' key may only be used after \string\makeglossaries\space
                     1530
                     1531
                           or \string\makenoidxglossaries}%
                          {You must use \string\makeglossaries\space
                     1532
                           or \string\makenoidxglossaries\space before defining
                     1533
                           any entries that have a 'see' key}%
                     1534
                     1535 }
             parent The parent key specifies the parent entry, if required.
                     1536 \define@key{glossentry}{parent}{%
                     1537 \def\@glo@parent{#1}}
       nonumberlist
                     The nonumberlist key suppresses or activates the number list for the given en-
                     1538 \define@choicekey{glossentry}{nonumberlist}[\val\nr]{true,false}[true]{%
                     1539
                          \ifcase\nr\relax
                             \def\@glo@prefix{\glsnonextpages}%
                     1540
                     1541
                             \def\@glo@prefix{\glsnextpages}%
                     1542
                     1543
                          \fi
                     1544 }
                         Define some generic user keys. (6 ought to be enough!)
              user1
                     1545 \define@key{glossentry}{user1}{%
                     1546 \def\@glo@useri{#1}%
                     1547 }
              user2
                     1548 \define@key{glossentry}{user2}{%
                     1549 \def\@glo@userii{#1}%
                     1550 }
```

1517

}%

```
1551 \define@key{glossentry}{user3}{%
            1552 \def\@glo@useriii{#1}%
            1553 }
      user4
            1554 \define@key{glossentry}{user4}{%
            1555 \def\@glo@useriv{#1}%
            1556 }
      user5
            1557 \define@key{glossentry}{user5}{%
            1558 \def\@glo@userv{#1}%
            1559}
      user6
            1560 \define@key{glossentry}{user6}{%
                  \def\@glo@uservi{#1}%
            1562 }
      short This key is provided for use by \newacronym. It's not designed for general pur-
              pose use, so isn't described in the user manual.
            1563 \define@key{glossentry}{short}{%
            1564
                 \def\@glo@short{#1}%
            1565 }
shortplural This key is provided for use by \newacronym.
            1566 \define@key{glossentry}{shortplural}{%
            1567
                 \def\@glo@shortpl{#1}%
            1568 }
       long This key is provided for use by \newacronym.
            1569 \define@key{glossentry}{long}{%
            1570 \def\@glo@long{#1}%
            1571 }
 longplural This key is provided for use by \newacronym.
            1572 \define@key{glossentry}{longplural}{%
            1573 \def\@glo@longpl{#1}%
            1574 }
\@glsnoname Define command to generate error if name key is missing.
            1575 \newcommand*{\@glsnoname}{%
                  \PackageError{glossaries}{name key required in
                  \string\newglossaryentry\space for entry '\@glo@label'}{You
            1577
            1578 haven't specified the entry name}}
```

user3

```
\@glsnodesc Define command to generate error if description key is missing.
                    1579 \newcommand*\@glsnodesc{%
                          \PackageError{glossaries}
                    1580
                    1581
                          {%
                            description key required in \string\newglossaryentry\space
                    1582
                            for entry '\@glo@label'%
                    1583
                          }%
                    1584
                    1585
                    1586
                            You haven't specified the entry description%
                    1587
                         }%
                    1588 }%
\@glsdefaultplural Now obsolete. Don't use.
                    1589 \newcommand*{\@glsdefaultplural}{}
s@missingnumberlist Define a command to generate warning when numberlist not set.
                    1590 \newcommand*{\@gls@missingnumberlist}[1]{%
                    1591
                          ??%
                          \ifglssavenumberlist
                    1592
                            \GlossariesWarning{Missing number list for entry '#1'.
                    1593
                             Maybe makeglossaries + rerun required.}%
                    1594
                    1595
                            \PackageError{glossaries}%
                    1596
                    1597
                            {Package option 'savenumberlist=true' required.}%
                    1598
                              You must use the 'savenumberlist' package option
                    1599
                              to reference location lists.%
                    1600
                    1601
                            }%
                    1602
                          \fi
                    1603 }
  \@glsdefaultsort Define command to set default sort.
                    1604 \newcommand*{\@glsdefaultsort}{\@glo@name}
         \gls@level Register to increment entry levels.
                    1605 \newcount\gls@level
@gls@noexpand@field
                    1606 \end{00gls@noexpand@field} [3] {\%}
                    1607 \expandafter\global\expandafter
                            \let\csname glo@#1@#2\endcsname#3%
                    1609 }
gls@noexpand@fields
                    1610 \newcommand{\@gls@noexpand@fields}[4]{%
                          \ifcsdef{gls@assign@#3@field}
                    1611
                    1612
                          {%
```

\ifdefequal{#4}{\@gls@default@value}%

```
1614
                              {%
                                \edef\@gls@value{\expandonce{#1}}%
                     1615
                                \csuse{gls@assign@#3@field}{#2}{\@gls@value}%
                     1616
                              }%
                     1617
                     1618
                              {%
                                \csuse{gls@assign@#3@field}{#2}{#4}%
                     1619
                              }%
                     1620
                           }%
                     1621
                           {%
                     1622
                             \ifdefequal{#4}{\@gls@default@value}%
                     1623
                             {%
                     1624
                                \edef\@gls@value{\expandonce{#1}}%
                     1625
                     1626
                                \@@gls@noexpand@field{#2}{#3}{\@gls@value}%
                             }%
                     1627
                             {%
                     1628
                     1629
                               \@@gls@noexpand@field{#2}{#3}{#4}%
                     1630
                             }%
                           }%
                     1631
                     1632 }
\@@gls@expand@field
                     1633 \newcommand{\@0gls@expand0field}[3]{%
                     1634 \expandafter
                            \protected@xdef\csname glo@#1@#2\endcsname{#3}%
                     1636 }
@gls@expand@fields
                     1637 \newcommand{\@gls@expand@fields}[4]{%
                           \ifcsdef{gls@assign@#3@field}
                     1638
                           {%
                     1639
                              \ifdefequal{#4}{\@gls@default@value}%
                     1640
                     1641
                              {%
                                \edef\@gls@value{\expandonce{#1}}%
                     1642
                                \csuse{gls@assign@#3@field}{#2}{\@gls@value}%
                     1643
                     1644
                              }%
                              {%
                     1645
                                \expandafter\@gls@startswithexpandonce#4\relax\relax\gls@endcheck
                     1646
                     1647
                                   \@@gls@expand@field{#2}{#3}{#4}%
                     1648
                     1649
                                }%
                     1650
                                   \csuse{gls@assign@#3@field}{#2}{#4}%
                     1651
                     1652
                                }%
                              }%
                     1653
                           }%
                     1654
                           {%
                     1655
                             \ifdefequal{#4}{\@gls@default@value}%
                     1656
                             {%
                     1657
```

```
1658 \@@gls@expand@field{#2}{#3}{#1}%

1659 }%

1660 {%

1661 \@@gls@expand@field{#2}{#3}{#4}%

1662 }%

1663 }%

1664}
```

tartswithexpandonce

```
1665\def\@gls@expandonce{\expandonce}
1666\def\@gls@startswithexpandonce#1#2\gls@endcheck#3#4{%
1667 \def\@gls@tmp{#1}%
1668 \ifdefequal{\@gls@expandonce}{\@gls@tmp}{#3}{#4}%
1669}
```

\gls@assign@field

 $\gls@assign@field\{\langle \textit{def value}\rangle\}\{\langle \textit{glossary type}\rangle\}\{\langle \textit{field}\rangle\}\{\langle \textit{tmp cs}\rangle\}\}$ 

Assigns an entry field. Expansion performed by default (except for name, symbol and description where backward compatibility required). If  $\langle tmp \ cs \rangle$  is  $\langle @gls@default@value \rangle$ ,  $\langle def \ value \rangle$  is used instead.

1670 \let\gls@assign@field\@gls@expand@fields

 $\verb|\glsexpandfields|$ 

Fully expand values when assigning fields (except for specific fields that are overridden by \glssetnoexpandfield).

```
1671 \newcommand*{\glsexpandfields}{%
1672 \let\gls@assign@field\@gls@expand@fields
1673}
```

\glsnoexpandfields

Don't expand values when assigning fields (except for specific fields that are overridden by \glssetexpandfield).

```
1674 \newcommand*{\glsnoexpandfields}{%
1675 \let\gls@assign@field\@gls@noexpand@fields
1676}
```

\newglossaryentry

Define \newglossaryentry  $\{\langle label \rangle\}$   $\{\langle key\text{-}val \ list \rangle\}$ . There are two required fields in  $\langle key\text{-}val \ list \rangle$ : name (or parent) and description. (See above.)

1677 \newrobustcmd{\newglossaryentry}[2]{%

Check to see if this glossary entry has already been defined:

```
1678 \glsdoifnoexists{#1}%
1679 {%
1680 \gls@defglossaryentry{#1}{#2}%
1681 }%
1682}
```

rovideglossaryentry

Like \newglossaryentry but does nothing if the entry has already been defined.

```
1683 \newrobustcmd{\provideglossaryentry}[2]{%
                                                             \ifglsentryexists{#1}%
                                               1685
                                                             {}%
                                                             {%
                                               1686
                                                                  \gls@defglossaryentry{#1}{#2}%
                                               1687
                                               1688
                                               1689 }
                                               1690 \@onlypreamble{\provideglossaryentry}
                                                For use in document environment.
\new@glossaryentry
                                               1691 \newrobustcmd{\new@glossaryentry}[2]{%
                                               1692
                                                             \ifundef\@gls@deffile
                                               1693
                                                                     \global\newwrite\@gls@deffile
                                               1694
                                                                     \immediate\openout\@gls@deffile=\jobname.glsdefs
                                               1695
                                                             }%
                                               1696
                                                             {}%
                                               1697
                                                             \ifglsentryexists{#1}{}%
                                               1698
                                               1699
                                                             {%
                                                                     \gls@defglossaryentry{#1}{#2}%
                                               1700
                                               1701
                                                             }%
                                               1702
                                                             \@gls@writedef{#1}%
                                               1703 }
                                               1704 \AtBeginDocument
                                               1705 €
                                               1706
                                                             \makeatletter
                                               1707
                                                             \InputIfFileExists{\jobname.glsdefs}{}{}%
                                                             \makeatother
                                               1708
                                               1709
                                                             \let\newglossaryentry\new@glossaryentry
                                               1710 }
                                               {\tt 1711 \AtEndDocument\{\ifdef\@gls@deffile\{\closeout\@gls@deffile\}\{\}\}}
          \@gls@writedef Writes glossary entry definition to \@gls@deffile.
                                               1712 \newcommand*{\@gls@writedef}[1]{%
                                                             \immediate\write\@gls@deffile
                                               1713
                                               1714
                                                             {%
                                               1715
                                                                   \string\ifglsentryexists{#1}{}\expandafter\@gobble\string\%^^J%
                                                                  \label{lem:condition} $$\operatorname{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\e
                                               1716
                                                                        \string\gls@defglossaryentry{\glsdetoklabel{#1}}\expandafter
                                               1717
                                                                                \cgobble\string\%^^J%
                                               1718
                                               1719
                                                                        \expandafter\@gobble\string\{\expandafter\@gobble\string\\%%
                                               1720
                                                             }%
                                                   Write key value information:
                                                             \@for\@gls@map:=\@gls@keymap\do
                                               1721
                                               1722
                                                                  \edef\glo@value{\expandafter\expandonce
                                               1723
                                               1724
                                                                          \csname glo@\glsdetoklabel{#1}@\expandafter
                                                                               \@secondoftwo\@gls@map\endcsname}%
                                               1725
                                               1726
                                                                  \@onelevel@sanitize\glo@value
```

```
1728
                       \expandafter\@firstoftwo\@gls@map
             1729
                          =\expandafter\@gobble\string\{\glo@value\expandafter\@gobble\string\},%
             1730
             1731
                          \expandafter\@gobble\string\%%
             1732
                     }%
                   }%
             1733
               Provide hook:
                   \glswritedefhook
             1734
                   \immediate\write\@gls@deffile
             1735
             1736
                             \expandafter\@gobble\string\%^^J%
             1737
                       \expandafter\@gobble\string\}\expandafter\@gobble\string\%^^J%
             1738
             1739
                     \expandafter\@gobble\string\}\expandafter\@gobble\string\\%%
                   }%
             1740
             1741 }
\@gls@keymap List of entry definition key names and corresponding tag in control sequence
               used to store the value.
             1742 \newcommand*{\@gls@keymap}{%
             1743
                   {name}{name},%
                   {sort}{sortvalue},% unescaped sort value
             1744
             1745
                   {type}{type},%
                   {first}{first},%
             1746
                   {firstplural}{firstpl},%
             1747
                   {text}{text},%
             1748
                   {plural}{plural},%
             1749
             1750
                   {description}{desc},%
                   {descriptionplural}{descplural},%
             1751
                   {symbol}{symbol},%
             1752
                   {symbolplural}{symbolplural},%
             1754
                   {user1}{useri},%
                   {user2}{userii},%
             1755
                   {user3}{useriii},%
             1756
             1757
                   {user4}{useriv},%
                   {user5}{userv},%
             1758
                   {user6}{uservi},%
             1759
                   {long}{long},%
             1760
                   {longplural}{longpl},%
             1761
                   {short}{short},%
             1762
                   {shortplural}{shortpl},%
             1763
             1764
                   {counter}{counter},%
                   {parent}{parent}%
             1765
             1766 }
```

\@gls@fetchfield

1727

\immediate\write\@gls@deffile

```
1767 \newcommand*{\@gls@fetchfield}[2]{%
            Ensure user field name is fully expanded
                 \edef\@gls@thisval{#2}%
            Iterate through known mappings until we find the one for this field.
                 \@for\@gls@map:=\@gls@keymap\do{%
                  \edef\@this@key{\expandafter\@firstoftwo\@gls@map}%
          1770
          1771
                  \ifdefequal{\@this@key}{\@gls@thisval}%
          1772
                  {%
            Found it.
                    \edef#1{\expandafter\@secondoftwo\@gls@map}%
            Break out of loop.
                    \@endfortrue
          1774
                 }%
          1775
          1776
                  {}%
          1777 }%
          1778 }
\glsaddkey
              \verb|\glsaddkey{<| key | } { | default value | } { | no link cs | } { | no link ucfirst | } } 
             cs}{\langle link \ cs \rangle}{\langle link \ ucfirst \ cs \rangle}{\langle link \ all \ caps \ cs \rangle}
             Allow user to add their own custom keys.
          1779 \newcommand*{\glsaddkey}{\@ifstar\@sglsaddkey\@glsaddkey}
            Starred version switches on expansion for this key.
          1780 \newcommand*{\@sglsaddkey}[1]{%
                 \key@ifundefined{glossentry}{#1}%
          1781
          1782
                   \expandafter\newcommand\expandafter*\expandafter
          1783
                    {\csname gls@assign@#1@field\endcsname}[2]{%
          1784
                      \ensuremath{\tt 00gls0expand0field{\#1}{\#1}{\#2}}
          1785
                    }%
          1786
                }%
          1787
          1788
                \@glsaddkey{#1}%
          1789
          1790 }
            Unstarred version doesn't override default expansion.
          1791 \newcommand*{\@glsaddkey}[7]{%
            Check the specified key doesn't already exist.
                 \key@ifundefined{glossentry}{#1}%
                {%
          1793
            Set up the key.
                   1795
                   \appto\@gls@keymap{,{#1}{#1}}%
```

Fetches the internal field label from the given user  $\langle field \rangle$  and stores in  $\langle cs \rangle$ .

```
Set the default value.
```

```
1796
       \appto\@newglossaryentryprehook{\csdef{@glo@#1}{#2}}%
 Assignment code.
       \appto\@newglossaryentryposthook{%
1797
          \\c){0glo@tmp}{0glo@#1}%
1798
          \gls@assign@field{#2}{\@glo@label}{#1}{\@glo@tmp}%
1799
1800
 Define the no-link commands.
       \newcommand*{#3}[1]{\@gls@entry@field{##1}{#1}}%
1801
       \newcommand*{#4}[1]{\@Gls@entry@field{##1}{#1}}%
1802
 Now for the commands with links. First the version with no case change:
       \ifcsdef{@gls@user@#1@}%
1803
1804
1805
           \PackageError{glossaries}%
           {Can't define '\string#5' as helper command
1806
            '\expandafter\string\csname @gls@user@#1@\endcsname' already exists}%
1807
           {}%
1808
       }%
1809
       {%
1810
          \newrobustcmd*{#5}{\@ifstar{\csuse{@sgls@user@#1}}{\csuse{@gls@user@#1}}}%
1811
          \expandafter\newcommand\expandafter*\expandafter
1812
            {\csname @sgls@user@#1\endcsname}[1][]{%
1813
              \csuse{@gls@user@#1}[hyper=false,##1]%
1814
            }%
1815
          \expandafter\newcommand\expandafter*\expandafter
1816
            {\csname @gls@user@#1\endcsname}[2][]{%
1817
              \new@ifnextchar[%
1818
                {\csuse{@gls@user@#1@}{##1}{##2}}%
1819
1820
                {\csuse{@gls@user@#1@}{##1}{##2}[]}}%
          \csdef{@gls@user@#1@}##1##2[##3]{%
1821
            \@gls@field@link{##1}{##2}{#3{##2}##3}%
1822
1823
         }%
1824
       }%
 Next the version with the first letter converted to upper case:
       \ifcsdef{@Gls@user@#1@}%
1825
       {%
1826
           \PackageError{glossaries}%
1827
           {Can't define '\string#6' as helper command
1828
            '\expandafter\string\csname @Gls@user@#1@\endcsname' already exists}%
1829
1830
           {}%
       }%
1831
       {%
1832
          \newrobustcmd*{#6}{\@ifstar{\csuse{@sGls@user@#1}}{\csuse{@gls@user@#1}}}%
1833
          \expandafter\newcommand\expandafter*\expandafter
1834
            {\csname @sGls@user@#1\endcsname}[1][]{%
1835
              \csuse{@Gls@user@#1}[hyper=false,##1]%
1836
            }%
1837
```

```
1838
                           \expandafter\newcommand\expandafter*\expandafter
                              {\csname @Gls@user@#1\endcsname}[2][]{%
                 1839
                                \new@ifnextchar[%
                 1840
                                  {\csuse{@Gls@user@#1@}{##1}{##2}}%
                 1841
                                  {\csuse{@Gls@user@#1@}{##1}{##2}[]}}%
                 1842
                            \csdef{@Gls@user@#1@}##1##2[##3]{%
                 1843
                              \0gls0field0link{##1}{##2}{#4{##2}##3}%
                 1844
                           }%
                 1845
                         }%
                 1846
                   Finally the all caps version:
                         \ifcsdef{@GLS@user@#1@}%
                 1847
                         {%
                 1848
                            \PackageError{glossaries}%
                 1849
                 1850
                            {Can't define '\string#7' as helper command
                              '\expandafter\string\csname @GLS@user@#1@\endcsname' already exists}%
                 1851
                 1852
                            {}%
                         }%
                 1853
                 1854
                         {%
                           \newrobustcmd*{#7}{\@ifstar{\csuse{@sGLS@user@#1}}}{\csuse{@sGLS@user@#1}}}}
                 1855
                           \expandafter\newcommand\expandafter*\expandafter
                 1856
                 1857
                              {\csname @sGLS@user@#1\endcsname}[1][]{%
                                \csuse{@GLS@user@#1}[hyper=false,##1]%
                 1858
                             }%
                 1859
                 1860
                           \expandafter\newcommand\expandafter*\expandafter
                              {\csname @GLS@user@#1\endcsname}[2][]{%
                 1861
                                \new@ifnextchar[%
                 1862
                                  {\csuse{@GLS@user@#1@}{##1}{##2}}%
                 1863
                                  {\csuse{@GLS@user@#1@}{##1}{##2}[]}}%
                 1864
                           \csdef{@GLS@user@#1@}##1##2[##3]{%
                 1865
                              \OglsOfieldOlink{##1}{##2}{\mfirstucMakeUppercase{#3{##2}##3}}%
                 1866
                           }%
                 1867
                         }%
                 1868
                 1869
                       }%
                 1870
                         \PackageError{glossaries}{Key '#1' already exists}{}%
                 1871
                       }%
                 1872
                 1873 }
\glswritedefhook
                 1874 \newcommand*{\glswritedefhook}{}
\gls@assign@desc
                 1875 \newcommand*{\gls@assign@desc}[1]{%
                       \gls@assign@field{}{#1}{desc}{\@glo@desc}%
                       \gls@assign@field{\@glo@desc}{#1}{descplural}{\@glo@descplural}%
                 1878 }
```

ongnewglossaryentry

```
1879 \newcommand{\longnewglossaryentry}[3]{%
                                  \glsdoifnoexists{#1}%
1880
                                  {%
1881
                                                     \bgroup
1882
                                                                  \let\@org@newglossaryentryprehook\@newglossaryentryprehook
1883
                                                                  \long\def\@newglossaryentryprehook{%
1884
                                                                               \label{longle} $$ \log \det @glo@desc{#3\leq \unskip\leq \
1885
                                                                               \@org@newglossaryentryprehook
1886
                                                                 }%
1887
                                                                  \renewcommand*{\gls@assign@desc}[1]{%
1888
                                                                                     \global\cslet{glo@\glsdetoklabel{#1}@desc}{\@glo@desc}%
1889
1890
                                                                                     \global\cslet{glo@\glsdetoklabel{#1}@descplural}{\@glo@desc}%
                                                                        }
1891
                                                                   \gls@defglossaryentry{#1}{#2}%
1892
                                                     \egroup
1893
                                 }
1894
1895 }
```

Only allowed in the preamble. (Otherwise a long description could cause problems when writing the entry definition to the temporary file.)

1896 \@onlypreamble{\longnewglossaryentry}

rovideglossaryentry As the above but only defines the entry if it doesn't already exist.

```
1897 \newcommand{\longprovideglossaryentry}[3]{%
     \ifglsentryexists{#1}{}%
     {\longnewglossaryentry{#1}{#2}{#3}}%
1899
1900 }
1901 \@onlypreamble{\longprovideglossaryentry}
```

gls@defglossaryentry

```
\gls@defglossaryentry{\langle label\rangle} \{\langle key-val list\rangle\rangle}
```

Defines a new entry without checking if it already exists.

```
1902 \newcommand{\gls@defglossaryentry}[2]{%
```

#### Store label

```
\edef\@glo@label{\glsdetoklabel{#1}}%
1903
```

Provide a means for user defined keys to reference the label:

```
\let\glslabel\@glo@label
```

Set up defaults. If the name or description keys are omitted, an error will be generated.

```
\let\@glo@name\@glsnoname
1905
       \let\@glo@desc\@glsnodesc
1906
1907
       \let\@glo@descplural\@gls@default@value
       \let\@glo@type\@gls@default@value
1908
       \let\@glo@symbol\@gls@default@value
1909
```

```
\let\@glo@symbolplural\@gls@default@value
1910
       \let\@glo@text\@gls@default@value
1911
       \let\@glo@plural\@gls@default@value
1912
 Using \let instead of \def to make later comparison avoid expansion issues.
 (Thanks to Ulrich Diez for suggesting this.)
1913
       \let\@glo@first\@gls@default@value
       \let\@glo@firstplural\@gls@default@value
1914
 Set the default sort:
        \let\@glo@sort\@gls@default@value
1915
 Set the default counter:
       \let\@glo@counter\@gls@default@value
1916
       \def\@glo@see{}%
1917
       \def\@glo@parent{}%
1918
       \def\@glo@prefix{}%
1919
1920
       \def\@glo@useri{}%
       \def\@glo@userii{}%
1921
       \def\@glo@useriii{}%
1922
       \def\@glo@useriv{}%
1923
       \def\@glo@userv{}%
1924
1925
       \def\@glo@uservi{}%
       \def\@glo@short{}%
1926
       \def\@glo@shortpl{}%
1927
1928
       \def\@glo@long{}%
       \def\@glo@longpl{}%
1929
 Add start hook in case another package wants to add extra keys.
       \@newglossaryentryprehook
1930
 Extract key-val information from third parameter:
        \setkeys{glossentry}{#2}%
1931
 Check there is a default glossary.
       \ifundef\glsdefaulttype
1932
1933
        {%
           \PackageError{glossaries}%
1934
           {No default glossary type (have you used 'nomain'?)}%
1935
           {If you use package option 'nomain' you must define
1936
            a new glossary before you can define entries}%
1937
       }%
1938
```

{}%

```
\gls@assign@field{\glsdefaulttype}{\@glo@label}{type}{\@glo@type}%
        \edef\@glo@type{\glsentrytype{\@glo@label}}%
1941
 Check to see if this glossary type has been defined, if it has, add this label to the
 relevant list, otherwise generate an error.
        \ifcsundef{glolist@\@glo@type}%
1942
        {%
1943
1944
          \PackageError{glossaries}%
          {Glossary type '\@glo@type' has not been defined}%
1945
          {You need to define a new glossary type, before making entries
1946
           in it}%
1947
       }%
1948
1949
          \protected@edef\@glolist@{\csname glolist@\@glo@type\endcsname}%
1950
          \expandafter\xdef\csname glolist@\@glo@type\endcsname{%
1951
            \@glolist@{\@glo@label},}%
1952
1953
 Initialise level to 0.
1954
        \gls@level=0\relax
 Has this entry been assigned a parent?
       \ifx\@glo@parent\@empty
1955
 Doesn't have a parent. Set \glo@\langle label\@parent to empty.
          \expandafter\gdef\csname glo@\@glo@label @parent\endcsname{}%
1956
        \else
1957
 Has a parent. Check to ensure this entry isn't its own parent.
          \ifdefequal\@glo@label\@glo@parent%
1958
1959
            \PackageError{glossaries}{Entry '\@glo@label' can't be its own parent}{}%
1960
            \def\@glo@parent{}%
1961
1962
            \expandafter\gdef\csname glo@\@glo@label @parent\endcsname{}%
          }%
1963
          {%
1964
 Check the parent exists:
            \ifglsentryexists{\@glo@parent}%
1965
            {%
1966
 Parent exists. Set \glo@\(label\) @parent.
              \expandafter\xdef\csname glo@\@glo@label @parent\endcsname{%
1967
                  \@glo@parent}%
1968
 Determine level.
1969
              \gls@level=\csname glo@\@glo@parent @level\endcsname\relax
              \advance\gls@level by 1\relax
1970
 If name hasn't been specified, use same as the parent name
              \ifx\@glo@name\@glsnoname
```

Assign type. This must be fully expandable

\expandafter\let\expandafter\@glo@name

```
1973
                   \csname glo@\@glo@parent @name\endcsname
 If name and plural haven't been specified, use same as the parent
                \ifx\@glo@plural\@gls@default@value
1975
                  \expandafter\let\expandafter\@glo@plural
                      \csname glo@\@glo@parent @plural\endcsname
1976
                \fi
1977
              \fi
1978
            }%
1979
            {%
1980
 Parent doesn't exist, so issue an error message and change this entry to have no
 parent
              \PackageError{glossaries}%
1981
              {%
1982
                Invalid parent '\@glo@parent'
1983
                for entry '\@glo@label' - parent doesn't exist%
1984
              }%
1985
              {%
1986
                Parent entries must be defined before their children%
1987
              }%
1988
              \def\@glo@parent{}%
1989
1990
              \expandafter\gdef\csname glo@\@glo@label @parent\endcsname{}%
            }%
1991
          }%
1992
1993
       \fi
 Set the level for this entry
       \expandafter\xdef\csname glo@\@glo@label @level\endcsname{\number\gls@level}%
 Define commands associated with this entry:
       \gls@assign@field{\@glo@name}{\@glo@label}{sortvalue}{\@glo@sort}%
1995
       \letcs\@glo@sort{glo@\@glo@label @sortvalue}%
1996
1997
       \gls@assign@field{\@glo@name}{\@glo@label}{text}{\@glo@text}%
1998
       \expandafter\gls@assign@field\expandafter
           {\csname glo@\@glo@label @text\endcsname\glspluralsuffix}%
1999
           {\@glo@label}{plural}{\@glo@plural}%
2000
       \expandafter\gls@assign@field\expandafter
2001
           {\csname glo@\@glo@label @text\endcsname}%
2002
           {\@glo@label}{first}{\@glo@first}%
2003
 If first has been specified, make the default by appending \glspluralsuffix,
 otherwise make the default the value of the plural key.
       \ifx\@glo@first\@gls@default@value
2004
          \expandafter\gls@assign@field\expandafter
2005
             {\csname glo@\@glo@label @plural\endcsname}%
2006
             {\@glo@label}{firstpl}{\@glo@firstplural}%
2007
       \else
2008
          \expandafter\gls@assign@field\expandafter
2009
             {\csname glo@\@glo@label @first\endcsname\glspluralsuffix}%
2010
```

{\@glo@label}{firstpl}{\@glo@firstplural}%

```
2012
       \fi
       \ifcsundef{@glotype@\@glo@type @counter}%
2013
2014
          \def\@glo@defaultcounter{\glscounter}%
2015
       }%
2016
2017
       {%
          \letcs\@glo@defaultcounter{@glotype@\@glo@type @counter}%
2018
2019
       \gls@assign@field{\@glo@defaultcounter}{\@glo@label}{counter}{\@glo@counter}{\
2020
       \gls@assign@field{}{\@glo@label}{useri}{\@glo@useri}%
2021
       \gls@assign@field{}{\@glo@label}{userii}{\@glo@userii}%
2022
       \gls@assign@field{}{\@glo@label}{useriii}{\@glo@useriii}%
2023
2024
       \gls@assign@field{}{\@glo@label}{useriv}{\@glo@useriv}%
       \gls@assign@field{}{\@glo@label}{userv}{\@glo@userv}%
2025
       \gls@assign@field{}{\@glo@label}{uservi}{\@glo@uservi}%
2026
2027
       \gls@assign@field{}{\@glo@label}{short}{\@glo@short}%
2028
       \gls@assign@field{}{\@glo@label}{shortpl}{\@glo@shortpl}%
       \gls@assign@field{}{\@glo@label}{long}{\@glo@long}%
2029
       \gls@assign@field{}{\@glo@label}{longpl}{\@glo@longpl}%
2030
       \ifx\@glo@name\@glsnoname
2031
2032
          \@glsnoname
2033
          \let\@gloname\@gls@default@value
2034
       \gls@assign@field{}{\@glo@label}{name}{\@glo@name}%
2035
 Set default numberlist if not defined:
       \ifcsundef{glo@\@glo@label @numberlist}%
2036
2037
       {%
          \csxdef{glo@\@glo@label @numberlist}{%
2038
2039
             \noexpand\@gls@missingnumberlist{\@glo@label}}%
       }%
2040
2041
       {}%
 The smaller and smallcaps options set the description to \@glo@first. Need
 to check for this, otherwise it won't get expanded if the description gets sani-
 tized.
2042
       \def\@glo@desc{\@glo@first}%
2043
       \ifx\@glo@desc\@glo@desc
          \let\@glo@desc\@glo@first
2044
       \fi
2045
       \ifx\@glo@desc\@glsnodesc
2046
2047
          \@glsnodesc
          \let\@glodesc\@gls@default@value
2048
2049
       \gls@assign@desc{\@glo@label}%
2050
 Set the sort key for this entry:
       \@gls@defsort{\@glo@type}{\@glo@label}%
2051
```

\def\@glo@csymbol{\@glo@text}%

```
2053 \ifx\@glo@symbol\@glo@@symbol
2054 \let\@glo@symbol\@glo@text
2055 \fi
2056 \gls@assign@field{\relax}{\@glo@label}{symbol}{\@glo@symbol}%
2057 \expandafter
2058 \gls@assign@field\expandafter
2059 \{\csname glo@\@glo@label @symbol\endcsname}
2060 \{\@glo@label}{symbolplural}{\@glo@symbolplural}%
```

Define an associated boolean variable to determine whether this entry has been used yet (needs to be defined globally):

```
\expandafter\xdef\csname glo@\@glo@label @flagfalse\endcsname{%
2061
2062
         \noexpand\global
2063
            \noexpand\let\expandafter\noexpand
              \csname ifglo@\@glo@label @flag\endcsname\noexpand\iffalse
2064
2065
       }%
       \expandafter\xdef\csname glo@\@glo@label @flagtrue\endcsname{%
2066
          \noexpand\global
2067
            \noexpand\let\expandafter\noexpand
2068
              \csname ifglo@\@glo@label @flag\endcsname\noexpand\iftrue
2069
2070
       \csname glo@\@glo@label @flagfalse\endcsname
2071
```

Sort out any cross-referencing if required.

```
\ifdefvoid\@glo@see
2072
       {}%
2073
2074
          \protected@edef\@do@glssee{%
2075
            \noexpand\@gls@fixbraces\noexpand\@glo@list\@glo@see
2076
2077
              \noexpand\@nil
            \noexpand\expandafter\noexpand\@glssee\noexpand\@glo@list{\@glo@label}}%
2078
2079
          \@do@glssee
       }%
2080
```

Determine and store main part of the entry's index format.

```
2081 \do@glo@storeentry{\@glo@label}%
```

Add end hook in case another package wants to add extra keys.

```
2082 \@newglossaryentryposthook 2083}
```

lossaryentryprehook Allow extra information to be added to glossary entries:

```
2084 \newcommand*{\@newglossaryentryprehook}{}
```

ossaryentryposthook Allow extra information to be added to glossary entries:

```
2085 \newcommand*{\@newglossaryentryposthook}{}
```

\glsmoveentry Moves entry whose label is given by first argument to the glossary named in the second argument.

```
2086 \newcommand*{\glsmoveentry}[2]{%
```

```
\edef\@glo@thislabel{\glsdetoklabel{#1}}%
2087
     \edef\glo@type{\csname glo@\@glo@thislabel @type\endcsname}%
2088
     \def\glo@list{,}%
2089
     \forglsentries[\glo@type]{\glo@label}%
2090
2091
         \ifdefequal\@glo@thislabel\glo@label
2092
           {}{\eappto\glo@list{\glo@label,}}%
2093
2094
     \cslet{glolist@\glo@type}{\glo@list}%
2095
     \csdef{glo@\@glo@thislabel @type}{#2}%
2096
2097 }
```

Oglossaryentryfield

Indicate what command should be used to display each entry in the glossary. (This enables the glossaries-accsupp package to use \accsuppglossaryentryfield instead.)

```
2098\ifglsxindy
    \newcommand*{\@glossaryentryfield}{\string\\glossentry}
2100\else
2101
     \newcommand*{\@glossaryentryfield}{\string\glossentry}
2102\fi
```

ossarysubentryfield Indicate what command should be used to display each subentry in the glossary. (This enables the glossaries-accsupp package to use \accsuppglossarysubentryfield instead.)

```
2103\ifglsxindy
     \newcommand*{\@glossarysubentryfield}{%
2104
       \string\\subglossentry}
2105
2106\else
     \newcommand*{\@glossarysubentryfield}{%
       \string\subglossentry}
2108
2109\fi
```

\@glo@storeentry

\@glo@storeentry{\label\}

Determine the format to write the entry in the glossary output (.glo) file. The argument is the entry's label (should already have been de-tok'ed if required). The result is stored in  $\glo@\langle label\rangle @entry$ , where  $\langle label\rangle$  is the entry's label. (This doesn't include any formatting or location information.)

2110 \newcommand{\@glo@storeentry}[1]{%

Escape makeindex/xindy special characters in the label:

```
\edef\@glo@esclabel{#1}%
     \@gls@checkmkidxchars\@glo@esclabel
2112
```

Get the sort string and escape any special characters

```
\protected@edef\@glo@sort{\csname glo@#1@sort\endcsname}%
```

\@gls@checkmkidxchars\@glo@sort

```
Same again for the name string. Escape any special characters in the prefix
     \@gls@checkmkidxchars\@glo@prefix
 Get the parent, if one exists
      \edef\@glo@parent{\csname glo@#1@parent\endcsname}%
 Write the information to the glossary file.
     \ifglsxindy
 Store using xindy syntax.
        \ifx\@glo@parent\@empty
 Entry doesn't have a parent
          \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
2119
           (\string"\@glo@sort\string" %
2120
           \label{thm:condition} $$  \string''\@glo@prefix\@glossaryentryfield(\@glo@esclabel)\string'') \% $$
2121
          }%
2122
2123
        \else
 Entry has a parent
          \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
2124
            \csname glo@\@glo@parent @index\endcsname
2125
2126
            (\string"\@glo@sort\string" %
            \string"\@glo@prefix\@glossarysubentryfield
2127
                {\csname glo@#1@level\endcsname}{\@glo@esclabel}\string") %
2128
           }%
2129
        \fi
2130
2131
     \else
 Store using makeindex syntax.
        \ifx\@glo@parent\@empty
2132
 Sanitize \@glo@prefix
          \@onelevel@sanitize\@glo@prefix
2133
 Entry doesn't have a parent
2134
          \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
            \@glo@sort\@gls@actualchar\@glo@prefix
2135
            \@glossaryentryfield{\@glo@esclabel}%
2136
          }%
2137
2138
        \else
 Entry has a parent
          \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
2139
            \csname glo@\@glo@parent @index\endcsname\@gls@levelchar
2140
2141
            \@glo@sort\@gls@actualchar\@glo@prefix
            \@glossarysubentryfield
2142
              {\csname glo@#1@level\endcsname}{\@glo@esclabel}%
2143
          }%
2144
        \fi
2145
2146
     \fi
2147 }
```

# 1.8 Resetting and unsetting entry flags

Each glossary entry is assigned a conditional of the form \ifglo@\label\@flag which determines whether or not the entry has been used (see also \ifglsused defined below). These flags can be set and unset using the following macros, but first we need to know if we're in amsmath's align environment's measuring pass.

```
\gls@ifnotmeasuring
                     2148 \AtBeginDocument{%
                           \@ifpackageloaded{amsmath}%
                     2149
                     2150
                           {\let\gls@ifnotmeasuring\@gls@ifnotmeasuring}%
                     2151
                     2152 }
                     2153 \newcommand*{\@gls@ifnotmeasuring}[1]{%
                           \ifmeasuring@
                           \else
                     2155
                             #1%
                     2156
                           \fi
                     2157
                     2158 }
                     2159 \newcommand*\gls@ifnotmeasuring[1]{#1}
           \glsreset The command \glsreset\{\langle label \rangle\} can be used to set the entry flag to indicate
                       that it hasn't been used yet. The required argument is the entry label.
                     2160 \newcommand*{\glsreset}[1]{%
                           \gls@ifnotmeasuring
                     2162
                           {%
                              \glsdoifexists{#1}%
                     2163
                     2164
                     2165
                                 \expandafter\global\csname glo@\glsdetoklabel{#1}@flagfalse\endcsname
                             }%
                     2166
                           }%
                     2167
                     2168 }
     \glslocalreset As above, but with only a local effect:
                     2169 \newcommand*{\glslocalreset}[1]{%
                     2170
                           \gls@ifnotmeasuring
                           {%
                     2171
                              \glsdoifexists{#1}%
                     2172
                             {%
                     2173
                     2174
                                 \expandafter\let\csname ifglo@\glsdetoklabel{#1}@flag\endcsname\iffalse
                     2175
                             }%
                     2176
                           }%
                     2177 }
```

The command  $\glunset{\langle label\rangle}$  can be used to set the entry flag to indicate that it has been used. The required argument is the entry label.

2178 \newcommand\*{\glsunset}[1]{%

```
2179
                                                                            \gls@ifnotmeasuring
                                                          2180
                                                                                   \glsdoifexists{#1}%
                                                          2181
                                                          2182
                                                                                          \expandafter\global\csname glo@\glsdetoklabel{#1}@flagtrue\endcsname
                                                          2183
                                                          2184
                                                                                  }%
                                                                            }%
                                                          2185
                                                          2186}
          \glslocalunset As above, but with only a local effect:
                                                          2187 \newcommand*{\glslocalunset}[1]{%
                                                          2188
                                                                            \gls@ifnotmeasuring
                                                          2189
                                                                                   \glsdoifexists{#1}%
                                                          2190
                                                          2191
                                                                                          \expandafter\let\csname ifglo@\glsdetoklabel{#1}@flag\endcsname\iftrue
                                                          2192
                                                                                  }%
                                                          2193
                                                          2194
                                                                           }%
                                                          2195 }
                                                               Reset all entries for the named glossaries (supplied in a comma-separated list).
                                                               Syntax: \glsresetall[\langle glossary-list \rangle]
                \glsresetall
                                                          2196 \newcommand*{\glsresetall}[1][\@glo@types]{%
                                                                            \forallglsentries[#1]{\@glsentry}%
                                                          2197
                                                          2198
                                                                            {%
                                                          2199
                                                                                       \glsreset{\@glsentry}%
                                                                            }%
                                                          2200
                                                          2201 }
                                                              As above, but with only a local effect:
\glslocalresetall
                                                          2202 \ensuremath{$\mid$} [1] [\ensuremath{$\mid$}] % \ensuremath{$\mid$} [1] [\ensuremath{$\mid$}] (\ensuremath{$\mid$}] 
                                                                            \forallglsentries[#1]{\@glsentry}%
                                                          2203
                                                          2204
                                                                            {%
                                                                                    \glslocalreset{\@glsentry}%
                                                          2205
                                                                            }%
                                                          2206
                                                          2207 }
                                                               Unset all entries for the named glossaries (supplied in a comma-separated list).
                                                               Syntax: \glsunsetall[\langle glossary-list \rangle]
                \glsunsetall
                                                          2208 \newcommand*{\glsunsetall}[1] [\@glo@types]{%
                                                          2209
                                                                            \forallglsentries[#1]{\@glsentry}%
                                                          2210
                                                                            {%
                                                          2211
                                                                                   \glsunset{\@glsentry}%
                                                          2212
                                                                           }%
                                                          2213 }
```

As above, but with only a local effect:

#### \glslocalunsetall

```
2214\newcommand*{\glslocalunsetall}[1][\@glo@types]{%
2215 \forallglsentries[#1]{\@glsentry}%
2216 {%
2217 \glslocalunset{\@glsentry}%
2218 }%
2219}
```

# 1.9 Loading files containing glossary entries

Glossary entries can be defined in an external file. These external files can contain  $\newglossaryentry$  and  $\newacronym$  commands.

```
\lceil \langle type \rangle \rceil \{\langle filename \rangle \}
```

This command will input the file using \input. The optional argument specifies to which glossary the entries should be assigned if they haven't used the type key. If the optional argument is not specified, the default glossary is used. Only those entries used in the document (via \glslink, \gls, \glspl and uppercase variants or \glsadd and \glsaddall will appear in the glossary). The mandatory argument is the filename (with or without .tex extension).

#### \loadglsentries

```
2220 \newcommand*{\loadglsentries}[2][\@gls@default]{%
2221 \let\@gls@default\glsdefaulttype
2222 \def\glsdefaulttype{#1}\input{#2}%
2223 \let\glsdefaulttype\@gls@default
2224}
```

\loadglsentries can only be used in the preamble:

2225 \@onlypreamble{\loadglsentries}

## 1.10 Using glossary entries in the text

Any term that has been defined using \newglossaryentry (or \newacronym) can be displayed in the text (i.e. outside of the glossary) using one of the commands defined in this section. Unless you use \glslink, the way the term appears in the text is determined by \glsdisplayfirst (if it is the first time the term has been used) or \glsdisplay (for subsequent use). Any formatting commands (such as \textbf is governed by \glstextformat. By default this just displays the link text "as is".

## \glstextformat

```
2226 \newcommand*{\glstextformat}[1]{#1}
```

<sup>&</sup>lt;sup>1</sup> and any other valid MT<sub>F</sub>X code that can be used in the preamble.

\glsentryfmt

As from version 3.11a, the way in which an entry is displayed is now governed by \glsentryfmt. This doesn't take any arguments. The required information is set by commands like \gls. To ensure backward compatibility, the default use the old \glsdisplay and \glsdisplayfirst style of commands

```
2227 \newcommand*{\glsentryfmt}{%
2228
     \@@gls@default@entryfmt\glsdisplayfirst\glsdisplay
2229 }
 Format that provides backwards compatibility:
2230 \newcommand*{\@0gls@default@entryfmt}[2]{%
     \ifdefempty\glscustomtext
2232
2233
        \glsifplural
2234
        {%
 Plural form
          \glscapscase
2235
          {%
2236
 Don't adjust case
            \ifglsused\glslabel
            {%
2238
 Subsequent use
              #2{\glsentryplural{\glslabel}}%
2239
2240
                 {\glsentrydescplural{\glslabel}}%
                 {\glsentrysymbolplural{\glslabel}}{\glsinsert}%
2241
            }%
2242
            {%
2243
 First use
2244
              #1{\glsentryfirstplural{\glslabel}}%
                 {\glsentrydescplural{\glslabel}}%
2245
                 {\glsentrysymbolplural{\glslabel}}{\glsinsert}%
2246
            }%
2247
          }%
2248
2249
          {%
 Make first letter upper case
```

```
2250
             \ifglsused\glslabel
2251
```

Subsequent use. (Expansion was used in version 3.07 and below in case the name wasn't the first thing to be displayed, but now the user can sort out the upper casing in \defglsentryfmt, which avoids the issues caused by fragile commands.)

```
\ifbool{glscompatible-3.07}%
2252
              {%
2253
                \protected@edef\@glo@etext{%
2254
                  #2{\glsentryplural{\glslabel}}%
2255
                     {\glsentrydescplural{\glslabel}}%
2256
```

```
2257
                     {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
                \xmakefirstuc\@glo@etext
2258
              }%
2259
              {%
2260
                #2{\Glsentryplural{\glslabel}}%
2261
                   {\glsentrydescplural{\glslabel}}%
2262
                   {\glsentrysymbolplural(\glslabel)}{\glsinsert}\%
2263
              }%
2264
            }%
2265
            {%
2266
 First use
              \ifbool{glscompatible-3.07}%
2267
              {%
2268
                 \protected@edef\@glo@etext{%
2269
2270
                   #1{\glsentryfirstplural{\glslabel}}%
2271
                     {\glsentrydescplural{\glslabel}}%
                     {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2272
                \xmakefirstuc\@glo@etext
2273
              }%
2274
              {%
2275
                #1{\Glsentryfirstplural{\glslabel}}%
2276
                   {\glsentrydescplural{\glslabel}}%
2277
                   {\glsentrysymbolplural{\glslabel}}{\glsinsert}%
2278
              }%
2279
            }%
2280
          }%
2281
          {%
2282
 Make all upper case
            \ifglsused\glslabel
2283
2284
            {%
 Subsequent use
2285
              \mfirstucMakeUppercase{#2{\glsentryplural{\glslabel}}%
                {\glsentrydescplural{\glslabel}}%
2286
                {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2287
            }%
2288
2289
            {%
 First use
2290
              \mfirstucMakeUppercase{#1{\glsentryfirstplural{\glslabel}}%
2291
                {\glsentrydescplural{\glslabel}}%
                 {\glsentrysymbolplural{\glslabel}}{\glsinsert}}\%
2292
            }%
2293
          }%
2294
       }%
2295
        {%
2296
 Singular form
2297
          \glscapscase
2298
          {%
```

```
Don't adjust case
            \ifglsused\glslabel
2299
2300
            {%
 Subsequent use
              #2{\glsentrytext{\glslabel}}%
2301
2302
                 {\glsentrydesc{\glslabel}}%
                 {\glsentrysymbol{\glslabel}}{\glsinsert}%
2303
            }%
2304
            {%
2305
 First use
              #1{\glsentryfirst{\glslabel}}%
2306
                 {\glsentrydesc{\glslabel}}%
2307
                 {\glsentrysymbol{\glslabel}}{\glsinsert}%
2308
            }%
2309
          }%
2310
          {%
2311
 Make first letter upper case
            \ifglsused\glslabel
2312
2313
            {%
 Subsequent use
2314
              \ifbool{glscompatible-3.07}%
2315
              {%
                 \protected@edef\@glo@etext{%
2316
2317
                   #2{\glsentrytext{\glslabel}}%
2318
                     {\glsentrydesc{\glslabel}}%
2319
                     {\glsentrysymbol{\glslabel}}{\glsinsert}}%
                 \xmakefirstuc\@glo@etext
2320
              }%
2321
2322
              {%
                 #2{\Glsentrytext{\glslabel}}%
2323
                   {\glsentrydesc{\glslabel}}%
2324
2325
                   {\glsentrysymbol{\glslabel}}{\glsinsert}%
              }%
2326
            }%
2327
            {%
2328
 First use
              \ifbool{glscompatible-3.07}%
2329
2330
              {%
                 \protected@edef\@glo@etext{%
2331
                   #1{\glsentryfirst{\glslabel}}%
2332
                     {\glsentrydesc{\glslabel}}%
2333
                     {\glsentrysymbol{\glslabel}}{\glsinsert}}%
2334
                   \xmakefirstuc\@glo@etext
2335
              }%
2336
2337
              {%
2338
                 #1{\Glsentryfirst{\glslabel}}%
```

```
2339
                  {\glsentrydesc{\glslabel}}%
                  {\glsentrysymbol{\glslabel}}{\glsinsert}%
2340
              }%
2341
           }%
2342
         }%
2343
         {%
2344
 Make all upper case
            \ifglsused\glslabel
2345
            {%
2346
 Subsequent use
              2347
                {\glsentrydesc{\glslabel}}\%
2348
                {\glsentrysymbol{\glslabel}}{\glsinsert}}%
2349
            }%
2350
            {%
2351
 First use
              \mfirstucMakeUppercase{#1{\glsentryfirst{\glslabel}}%
2352
                {\glsentrydesc{\glslabel}}%
2353
                {\glsentrysymbol{\glslabel}}{\glsinsert}}%
2354
           }%
2355
2356
         }%
       }%
2357
2358
     }%
2359
     {%
 Custom text provided in \glsdisp
       \ifglsused{\glslabel}%
2360
       {%
2361
 Subsequent use
         #2{\glscustomtext}%
2362
2363
            {\glsentrydesc{\glslabel}}%
            {\glsentrysymbol{\glslabel}}{}\\
2364
       }%
2365
       {%
2366
 First use
         #1{\glscustomtext}%
2367
            {\glsentrydesc{\glslabel}}%
2368
            {\glsentrysymbol{\glslabel}}{}\\
2369
       }%
2370
2371
     }%
2372 }
```

\glsgenentryfmt Define a generic format that just uses the first, text, plural or first plural keys (or the custom text) with the insert text appended.

```
2373 \newcommand*{\glsgenentryfmt}{%
2374 \ifdefempty\glscustomtext
```

```
2375
2376
        \glsifplural
        {%
2377
 Plural form
          \glscapscase
2378
2379
          {%
 Don't adjust case
            \ifglsused\glslabel
2381
             {%
 Subsequent use
               \glsentryplural{\glslabel}\glsinsert
            }%
2383
2384
             {%
 First use
               \glsentryfirstplural{\glslabel}\glsinsert
2385
            }%
2386
          }%
2387
2388
          {%
 Make first letter upper case
             \ifglsused\glslabel
2389
             {%
2390
 Subsequent use.
2391
                \Glsentryplural{\glslabel}\glsinsert
2392
            }%
             {%
2393
 First use
                \Glsentryfirstplural{\glslabel}\glsinsert
2394
            }%
2395
2396
          }%
          {%
2397
 Make all upper case
             \ifglsused\glslabel
2398
2399
             {%
 Subsequent use
               \mfirstucMakeUppercase
2400
                  {\glsentryplural{\glslabel}\glsinsert}%
2401
            }%
2402
             {%
2403
 First use
2404
               \mfirstucMakeUppercase
                  {\glsentryfirstplural{\glslabel}\glsinsert}%
2405
            }%
2406
          }%
2407
```

```
}%
2408
2409
       {%
 Singular form
2410
         \glscapscase
          {%
2411
 Don't adjust case
            \ifglsused\glslabel
2412
2413
 Subsequent use
              \verb|\glsentrytext{\glslabel}\glsinsert|
2414
            }%
2415
            {%
2416
 First use
2417
              \verb|\glsentryfirst{\glslabel}\glsinsert|
           }%
2418
         }%
2419
          {%
2420
 Make first letter upper case
2421
            \ifglsused\glslabel
2422
 Subsequent use
               \Glsentrytext{\glslabel}\glsinsert
2423
            }%
2424
2425
            {%
 First use
              \Glsentryfirst{\glslabel}\glsinsert
2426
           }%
2427
         }%
2428
2429
          {%
 Make all upper case
            \ifglsused\glslabel
2430
            {%
2431
 Subsequent use
2432
              \mfirstucMakeUppercase{\glsentrytext{\glslabel}\glsinsert}%
            }%
2433
            {%
2434
 First use
              2435
           }%
2436
2437
         }%
2438
       }%
     }%
2439
     {%
2440
```

```
this point.)
2441
        \glscustomtext\glsinsert
2442
      }%
2443 }
 Define a generic acronym format that uses the long and short keys (or their
 plurals) and \acrfullformat, \firstacronymfont and \acronymfont.
2444 \newcommand*{\glsgenacfmt}{%
      \ifdefempty\glscustomtext
2445
      {%
2446
        \ifglsused\glslabel
2447
2448
 Subsequent use:
          \glsifplural
2449
2450
          {%
 Subsequent plural form:
            \glscapscase
2451
2452
 Subsequent plural form, don't adjust case:
               \acronymfont{\glsentryshortpl{\glslabel}}\glsinsert
2453
            }%
2454
            {%
2455
 Subsequent plural form, make first letter upper case:
               \acronymfont{\Glsentryshortpl{\glslabel}}\glsinsert
            }%
2457
2458
            {%
 Subsequent plural form, all caps:
               \mfirstucMakeUppercase
2459
2460
                 {\acronymfont{\glsentryshortpl{\glslabel}}\glsinsert}%
2461
            }%
          }%
2462
          {%
2463
 Subsequent singular form
            \glscapscase
2464
            {%
2465
 Subsequent singular form, don't adjust case:
               \acronymfont{\glsentryshort{\glslabel}}\glsinsert
2466
            }%
2467
            {%
2468
 Subsequent singular form, make first letter upper case:
               \acronymfont{\Glsentryshort{\glslabel}}\glsinsert
2469
            }%
2470
            {%
2471
```

Custom text provided in \glsdisp. (The insert is most likely to be empty at

```
Subsequent singular form, all caps:
               \mfirstucMakeUppercase
2472
                 {\acronymfont{\glsentryshort{\glslabel}}\glsinsert}%
2473
             }%
2474
          }%
2475
        }%
2476
        {%
2477
 First use:
2478
           \glsifplural
           {%
2479
 First use plural form:
             \glscapscase
             {%
2481
 First use plural form, don't adjust case:
               \genplacrfullformat{\glslabel}{\glsinsert}%
2482
             }%
2483
             {%
2484
 First use plural form, make first letter upper case:
               \Genplacrfullformat{\glslabel}{\glsinsert}%
2485
             }%
2486
             {%
2487
 First use plural form, all caps:
               \mfirstucMakeUppercase
2488
                 {\genplacrfullformat{\glslabel}{\glsinsert}}%
2489
             }%
2490
          }%
2491
           {%
2492
 First use singular form
             \glscapscase
2493
2494
 First use singular form, don't adjust case:
2495
               \genacrfullformat{\glslabel}{\glsinsert}%
             }%
2496
             {%
2497
 First use singular form, make first letter upper case:
               \Genacrfullformat{\glslabel}{\glsinsert}%
             }%
2499
             {%
2500
 First use singular form, all caps:
2501
               \mfirstucMakeUppercase
                {\genacrfullformat{\glslabel}{\glsinsert}}%
2502
             }%
2503
          }%
2504
        }%
```

2505

```
2506
                           }%
                     2507
                           {%
                       User supplied text.
                              \glscustomtext
                     2508
                           }%
                     2509
                     2510}
  \genacrfullformat
                         \genacrfullformat{\label\rangle} \{\langle insert\rangle}
                       The full format used by \glsgenacfmt (singular).
                      2511 \newcommand*{\genacrfullformat}[2]{%
                             \glsentrylong{#1}#2\space
                      2512
                             (\protect\firstacronymfont{\glsentryshort{#1}})%
                     2513
                     2514 }
  \Genacrfullformat
                         \Genacrfullformat\{\langle label\rangle\}\{\langle insert\rangle\}
                       As above but makes the first letter upper case.
                     2515 \newcommand*{\Genacrfullformat}[2]{%
                            \protected@edef\gls@text{\genacrfullformat{#1}{#2}}%
                     2517
                            \xmakefirstuc\gls@text
                     2518}
\genplacrfullformat
                         \genplacrfullformat{\label\}{\langle insert\}
                       The full format used by \glsgenacfmt (plural).
                     2519 \newcommand*{\genplacrfullformat}[2]{%
                             \glsentrylongpl{#1}#2\space
                     2520
                             (\protect\firstacronymfont{\glsentryshortpl{#1}})%
                      2521
                      2522 }
                         \Genplacefullformat{\langle label \rangle}{\langle insert \rangle}
\Genplacrfullformat
                       As above but makes the first letter upper case.
                     2523 \newcommand*{\Genplacrfullformat}[2]{%
                            \protected@edef\gls@text{\genplacrfullformat{#1}{#2}}%
                            \xmakefirstuc\gls@text
                     2525
                     2526}
```

\glsdisplayfirst Deprecated. Kept for backward compatibility.

2527 \newcommand\*{\glsdisplayfirst}[4]{#1#4}

```
Deprecated. Kept for backward compatibility.
                    2528 \newcommand*{\glsdisplay}[4]{#1#4}
     \defglsdisplay Deprecated. Kept for backward compatibility.
                    2529 \newcommand*{\defglsdisplay}[2][\glsdefaulttype]{%
                    2530
                          \GlossariesWarning{\string\defglsdisplay\space is now obsolete.^^J
                          Use \string\defglsentryfmt\space instead}%
                    2531
                          \expandafter\def\csname gls@#1@display\endcsname##1##2##3##4{#2}%
                    2532
                          \edef\@gls@doentrydef{%
                    2533
                    2534
                            \noexpand\defglsentryfmt[#1]{%
                              \noexpand\ifcsdef{gls@#1@displayfirst}%
                    2535
                    2536
                              {%
                                 \noexpand\@@gls@default@entryfmt
                    2537
                                   {\noexpand\csuse{gls@#1@displayfirst}}%
                    2538
                                   {\noexpand\csuse{gls@#1@display}}%
                    2539
                              }%
                    2540
                              {%
                    2541
                                 \noexpand\@@gls@default@entryfmt
                    2542
                                   {\noexpand\glsdisplayfirst}%
                    2543
                    2544
                                   {\noexpand\csuse{gls@#1@display}}%
                              }%
                    2545
                            }%
                    2546
                          }%
                    2547
                    2548
                          \@gls@doentrydef
                    2549 }
\defglsdisplayfirst
                     Deprecated. Kept for backward compatibility.
                    2550 \newcommand*{\defglsdisplayfirst}[2][\glsdefaulttype]{%
                          \GlossariesWarning{\string\defglsdisplayfirst\space is now obsolete.^^J
                    2551
                          Use \string\defglsentryfmt\space instead}%
                    2552
                          \expandafter\def\csname gls@#1@displayfirst\endcsname##1##2##3##4{#2}%
                    2553
                    2554
                          \edef\@gls@doentrydef{%
                            \noexpand\defglsentryfmt[#1]{%
                    2555
                              \noexpand\ifcsdef{gls@#1@display}%
                    2556
                    2557
                                 \noexpand\@@gls@default@entryfmt
                    2558
                                   {\noexpand\csuse{gls@#1@displayfirst}}%
                    2559
                                   {\noexpand\csuse{gls@#1@display}}%
                    2560
                              }%
                    2561
                              {%
                    2562
                                 \noexpand\@@gls@default@entryfmt
                    2563
                                   {\noexpand\csuse{gls@#1@displayfirst}}%
                    2564
                                   {\noexpand\glsdisplay}%
                    2565
                              }%
                    2566
                            }%
                    2567
                    2568
                          }%
```

\@gls@doentrydef

2569 2570 }

## 1.10.1 Links to glossary entries

The links to glossary entries all have a first optional argument that can be used to change the format and counter of the associated entry number. Except for \glslink and \glsdisp, the commands like \gls have a final optional argument that can be used to insert additional text in the link (this will usually be appended, but can be redefined using \defentryfmt). It goes against the MEX norm to have an optional argument after the mandatory arguments, but it makes more sense to write, say, \gls{label}['s] rather than, say, \gls[append='s]{label}. Since these control sequences are defined to include the final square bracket, spaces will be ignored after them. This is likely to lead to confusion as most users would not expect, say, \gls{\label}} to ignore following spaces, so \new@ifnextchar from the package is required.

The following keys can be used in the first optional argument. The counter key checks that the value is the name of a valid counter.

```
2571 \define@key{glslink}{counter}{%
      \ifcsundef{c@#1}%
2572
2573
        \PackageError{glossaries}%
2574
        {There is no counter called '#1'}%
2575
2576
           The counter key should have the name of a valid counter
2577
           as its value%
2578
        }%
2579
      }%
2580
2581
      {%
        \def\@gls@counter{#1}%
2582
     }%
2583
2584 }
```

The value of the format key should be the name of a command (without the initial backslash) that has a single mandatory argument which can be used to format the associated entry number.

```
2585 \define@key{glslink}{format}{%
2586 \def\@glsnumberformat{#1}}
```

The hyper key is a boolean key, it can either have the value true or false, and indicates whether or not to make a hyperlink to the relevant glossary entry. If hyper is false, an entry will still be made in the glossary, but the given text won't be a hyperlink.

```
2587 \define@boolkey{glslink}{hyper}[true]{}
```

The local key is a boolean key. If true this indicates that commands such as \gls should only do a local reset rather than a global one.

```
2588 \define@boolkey{glslink}{local}[true]{}
Syntax:
```

```
\glslink[\langle options \rangle] \{\langle label \rangle\} \{\langle text \rangle\}
```

Display  $\langle text \rangle$  in the document, and add the entry information for  $\langle label \rangle$  into the relevant glossary. The optional argument should be a key value list using the glslink keys defined above.

There is also a starred version:

```
\glslink*[\langle options \rangle] {\langle label \rangle} {\langle text \rangle}
```

which is equivalent to  $\glslink[hyper=false, \langle options \rangle] {\langle label \rangle} {\langle text \rangle}$  First determine whether or not we are using the starred version:

```
\glslink
```

```
2589 \newrobustcmd*{\glslink}{%
2590 \@ifstar\@sgls@link\@gls@@link
2591}
```

\@sgls@link The starred version of \glslink calls the unstarred version with hyperlinks disabled

```
2592 \end{tabular} $$ 2592 \end{tabular} [1] [] {\end{tabular} end{tabular} $$ 1] [] {\end{tabular} end{tabular} end{tabular} $$ 2592 \end{tabular} $$ 2
```

\@gls@@link The unstarred version of \glslink checks for the existance of the term. The main part of the business is in \@gls@link which shouldn't check if the term is defined as it's called by \gls etc which also perform that check.

```
2593 \newcommand*{\@gls@@link}[3][]{%
2594 \ifglsentryexists{#2}%
2595 {%
2596 \@gls@link[#1]{#2}{#3}%
2597 }{%
2598 \PackageError{glossaries}{Glossary entry '#2' has not been
2599 defined}{You need to define a glossary entry before you
2600 can use it.}%
```

Display the specified text. (The entry doesn't exist so there's nothing to link it to.)

```
2601 \glstextformat{#3}%
2602 }%
2603 }
```

\@gls@link

```
2604 \def\@gls@link[#1]#2#3{%
```

Inserting \leavevmode suggested by Donald Arseneau (avoids problem with tabularx).

```
2605 \leavevmode
2606 \edef\glslabel{\glsdetoklabel{#2}}%
```

Save options in \@gls@link@opts and label in \@gls@link@label

```
2607 \def\@gls@link@opts{#1}%
2608 \let\@gls@link@label\glslabel
```

```
2609
                             \def\@glsnumberformat{glsnumberformat}%
                             \edef\@gls@counter{\csname glo@\glslabel @counter\endcsname}%
                     2610
                      If this is in one of the "nohypertypes" glossaries, suppress the hyperlink by de-
                      fault
                     2611
                             \edef\gls@type{\csname glo@\glslabel @type\endcsname}%
                     2612
                             \expandafter\DTLifinlist\expandafter
                     2613
                               {\gls@type}{\@gls@nohyperlist}%
                             {%
                     2614
                                \KV@glslink@hyperfalse
                     2615
                             }%
                     2616
                     2617
                             {%
                     2618
                                \KV@glslink@hypertrue
                             }%
                     2619
                             \setkeys{glslink}{#1}%
                     2620
                      Store the entry's counter in \theglsentrycounter
                             \@gls@saveentrycounter
                     2621
                      Define sort key if necessary:
                     2622
                             \@gls@setsort{\glslabel}%
                      (De-tok'ing done by \@@do@wrglossary)
                     2623
                             \@do@wrglossary{#2}%
                             \ifKV@glslink@hyper
                     2624
                     2625
                               \Oglslink{\glolinkprefix\glslabel}{\glstextformat{#3}}%
                     2626
                               \glstextformat{#3}%
                     2627
                     2628
                             \fi
                     2629 }
     \glolinkprefix
                     2630 \newcommand*{\glolinkprefix}{glo:}
   \glsentrycounter
                     Set default value of entry counter
                     2631 \def\glsentrycounter{\glscounter}%
1s@saveentrycounter Need to check if using equation counter in align environment:
                    2632 \newcommand*{\@gls@saveentrycounter}{%
                          \def\@gls@Hcounter{}%
                      Are we using equation counter?
                          \ifthenelse{\equal{\@gls@counter}{equation}}%
                     2634
                     2635
                      If we're in align environment, \xatlevel@ will be defined. (Can't test for
                      \@currenvir as may be inside an inner environment.)
                             \ifcsundef{xatlevel@}%
                     2636
                     2637
                     2638
                               \edef\theglsentrycounter{\expandafter\noexpand
```

```
2639
            \csname the\@gls@counter\endcsname}%
        }%
2640
        {%
2641
          \ifx\xatlevel@\@empty
2642
            \edef\theglsentrycounter{\expandafter\noexpand
2643
               \csname the\@gls@counter\endcsname}%
2644
          \else
2645
2646
            \savecounters@
            \advance\c@equation by 1\relax
2647
              \edef\theglsentrycounter{\csname the\@gls@counter\endcsname}%
2648
 Check if hyperref version of this counter
            \ifcsundef{theH\@gls@counter}%
2649
2650
            {%
2651
                \def\@gls@Hcounter{\theglsentrycounter}\%
            }%
2652
            {%
2653
               \def\@gls@Hcounter{\csname theH\@gls@counter\endcsname}%
2654
2655
            }%
            \protected@edef\theHglsentrycounter{\@gls@Hcounter}%
2656
            \restorecounters@
2657
          \fi
2658
        }%
2659
     }%
2660
      {%
2661
 Not using equation counter so no special measures:
        \edef\theglsentrycounter{\expandafter\noexpand
2662
          \csname the\@gls@counter\endcsname}%
2663
2664
     }%
 Check if hyperref version of this counter
      \ifx\@gls@Hcounter\@empty
2665
        \ifcsundef{theH\@gls@counter}%
2666
2667
        {%
           \def\theHglsentrycounter{\theglsentrycounter}%
2668
        }%
2669
        {%
2670
          \protected@edef\theHglsentrycounter{\expandafter\noexpand
2671
            \csname theH\@gls@counter\endcsname}%
2672
        }%
2673
      \fi
2674
2675 }
```

\@set@glo@numformat

Set the formatting information in the format required by makeindex. The first argument is the format specified by the user (via the format key), the second argument is the name of the counter used to indicate the location, the third argument is a control sequence which stores the required format and the fourth argument (new to v3.0) is the hyper-prefix.

```
2676 \def\@set@glo@numformat#1#2#3#4{%
2677 \expandafter\@glo@check@mkidxrangechar#3\@nil
2678 \protected@edef#1{%
2679 \@glo@prefix setentrycounter[#4]{#2}%
2680 \expandafter\string\csname\@glo@suffix\endcsname
2681 }%
2682 \@gls@checkmkidxchars#1%
2683}
```

Check to see if the given string starts with a (or). If it does set \@glo@prefix to the starting character, and \@glo@suffix to the rest (or glsnumberformat if there is nothing else), otherwise set \@glo@prefix to nothing and \@glo@suffix to all of it.

```
2684 \def\@glo@check@mkidxrangechar#1#2\@nil{%
2685\if#1(\relax
     \def\@glo@prefix{(}%
2686
     \if\relax#2\relax
2687
2688
        \def\@glo@suffix{glsnumberformat}%
     \else
2689
       \def\@glo@suffix{#2}%
2690
     \fi
2691
2692\else
     \inf #1) \operatorname{lax}
2693
        \def\@glo@prefix{)}%
2694
        \if\relax#2\relax
2695
          \def\@glo@suffix{glsnumberformat}%
2696
        \else
2697
          \def\@glo@suffix{#2}%
2698
     \fi
2699
2700
        \def\@glo@prefix{}\def\@glo@suffix{#1#2}%
2701
     \fi
2702
2703\fi}
```

\@gls@escbsdq Escape backslashes and double quote marks. The argument must be a control sequence.

```
2704 \newcommand*{\QglsQescbsdq}[1]{%
    \def\@gls@checkedmkidx{}%
    \let\gls@xdystring=#1\relax
2706
    \@onelevel@sanitize\gls@xdystring
2707
2708
    \edef\do@gls@xdycheckbackslash{%
2709
      \noexpand\@gls@xdycheckbackslash\gls@xdystring\noexpand\@nil
2710
      \@backslashchar\@backslashchar\noexpand\null}%
2711
    \do@gls@xdycheckbackslash
2712
    \def\@gls@checkedmkidx{}%
2713
    \expandafter\@gls@xdycheckquote\gls@xdystring\@nil""\null
2715
    \expandafter\@gls@updatechecked\@gls@checkedmkidx{\gls@xdystring}%
```

```
Unsanitize \gls@numberpage, \gls@alphpage, \gls@Alphpage and \glsromanpage (thanks to David Carlise for the suggestion.)
```

```
\@for\@gls@tmp:=\gls@protected@pagefmts\do
2716
2717
2718
       \edef\@gls@sanitized@tmp{\expandafter\@gobble\string\\\expandonce\@gls@tmp}%
2719
       \@onelevel@sanitize\@gls@sanitized@tmp
2720
       \edef\gls@dosubst{%
          \noexpand\DTLsubstituteall\noexpand\gls@xdystring
2721
          {\@gls@sanitized@tmp}{\expandonce\@gls@tmp}%
2722
       }%
2723
       \gls@dosubst
2724
     }%
2725
 Assign to required control sequence
     \let#1=\gls@xdystring
```

Catch special characters (argument must be a control sequence):

#### gls@checkmkidxchars

2727 }

```
2728 \newcommand{\@gls@checkmkidxchars}[1]{%
2729
     \ifglsxindy
       \@gls@escbsdq{#1}%
2730
2731
     \else
       \def\@gls@checkedmkidx{}%
2732
2733
       \expandafter\@gls@checkquote#1\@nil""\null
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
2734
2735
       \def\@gls@checkedmkidx{}%
2736
       \expandafter\@gls@checkescquote#1\@nil\"\"\null
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
2737
       \def\@gls@checkedmkidx{}%
2738
       \expandafter\@gls@checkescactual#1\@nil\?\?\null
2739
2740
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
       \def\@gls@checkedmkidx{}%
2741
       \expandafter\@gls@checkactual#1\@nil??\null
2742
2743
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
       \def\@gls@checkedmkidx{}%
2744
       \expandafter\@gls@checkbar#1\@nil||\null
2745
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
2746
2747
       \def\@gls@checkedmkidx{}%
       \expandafter\@gls@checkescbar#1\@nil\|\null
2748
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
2749
2750
       \def\@gls@checkedmkidx{}%
       \expandafter\@gls@checklevel#1\@nil!!\null
2751
2752
       \expandafter\@gls@updatechecked\@gls@checkedmkidx{#1}%
2753
     \fi
2754 }
```

Update the control sequence and strip trailing \@nil:

```
\@gls@updatechecked
                                              2755 \def\@gls@updatechecked#1\@nil#2{\def#2{#1}}
                     \@gls@tmpb Define temporary token
                                              2756 \newtoks\@gls@tmpb
      \@gls@checkquote Replace " with "" since " is a makeindex special character.
                                              2757 \def\@gls@checkquote#1"#2"#3\null{%
                                                           \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                                                           \toks@={#1}%
                                              2759
                                                           \ifx\null#2\null
                                              2760
                                                              \ifx\null#3\null
                                              2761
                                                               \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                                              2762
                                                                \def\@@gls@checkquote{\relax}%
                                              2763
                                              2764
                                                                \verb|\edgls@checkedmkidx{\theta}| $$ \edgls@tmpb\the\toks@
                                              2765
                                                                     \@gls@quotechar\@gls@quotechar\@gls@quotechar\%
                                              2766
                                                                \def\@@gls@checkquote{\@gls@checkquote#3\null}%
                                              2767
                                              2768
                                              2769
                                                           \else
                                                              \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                              2770
                                              2771
                                                                  \@gls@quotechar\@gls@quotechar}%
                                                              \ifx\null#3\null
                                              2772
                                                                  \def\@@gls@checkquote{\@gls@checkquote#2""\null}%
                                              2773
                                              2774
                                                              \else
                                              2775
                                                                  \def\@@gls@checkquote{\@gls@checkquote#2"#3\null}%
                                              2776
                                                           \fi
                                              2777
                                                           \@@gls@checkquote
                                              2778
                                              2779}
\c0gls@checkescquote Do the same for \":
                                              2780 \def\@gls@checkescquote#1\"#2\"#3\null{%
                                              2781
                                                           \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                                                          \toks@={#1}%
                                                          \int x^null#2\null
                                              2783
                                                             \ifx\null#3\null
                                              2784
                                                                \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                                              2785
                                                                \def\@@gls@checkescquote{\relax}%
                                              2786
                                                              \else
                                              2787
                                                                \verb|\edgls@checkedmkidx{\theta}| $$ \edgls@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks@tmpb\the\toks\the\toks@tmpb\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\the\toks\
                                              2788
                                              2789
                                                                     \@gls@quotechar\string\"\@gls@quotechar
                                                                     \@gls@quotechar\string\"\@gls@quotechar}%
                                              2790
                                                                \def\@@gls@checkescquote{\@gls@checkescquote#3\null}%
                                              2791
                                                              \fi
                                              2792
                                              2793
                                                           \else
                                                              \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                              2794
                                                                  \@gls@quotechar\string\"\@gls@quotechar}%
                                              2795
```

2796

\ifx\null#3\null

```
2798
                           \else
                             \def\@@gls@checkescquote{\@gls@checkescquote#2\"#3\null}%
                    2799
                    2800
                           \fi
                          \fi
                    2801
                    2802 \@@gls@checkescquote
                    2803 }
                     Similarly for \? (which is replaces @ as makeindex's special character):
OglsOcheckescactual
                    2804 \def\@gls@checkescactual#1\?#2\?#3\null{%
                    2805 \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                    2806 \toks@={#1}%
                    2807 \ifx\null#2\null
                    2808
                           \ifx\null#3\null
                            \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                    2809
                            \def\@@gls@checkescactual{\relax}%
                    2810
                    2811
                             \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                    2812
                    2813
                             \@gls@quotechar\string\"\@gls@actualchar
                             \@gls@quotechar\string\"\@gls@actualchar}%
                    2814
                             \def\@@gls@checkescactual{\@gls@checkescactual#3\null}%
                    2815
                           \fi
                    2816
                    2817
                          \else
                            \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                    2818
                    2819
                            \@gls@quotechar\string\"\@gls@actualchar}%
                            \ifx\null#3\null
                    2820
                              \def\@@gls@checkescactual{\@gls@checkescactual#2\?\?\null}%
                    2821
                    2822
                              \def\@@gls@checkescactual{\@gls@checkescactual#2\?#3\null}%
                    2823
                    2824
                           \fi
                          \fi
                    2825
                    2826 \@@gls@checkescactual
 \@gls@checkescbar Similarly for \|:
                    2828 \def \0gls0checkescbar#1\|#2\|#3\null{%
                          \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                    2830
                          \toks@={#1}%
                          \int x^null#2\null
                    2831
                           \int x^null#3\null
                    2832
                            \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                    2833
                            \def\@@gls@checkescbar{\relax}%
                    2834
                    2835
                           \else
                            \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                    2836
                              \@gls@quotechar\string\"\@gls@encapchar
                    2837
                              \@gls@quotechar\string\"\@gls@encapchar}%
                    2838
                    2839
                            \def\@@gls@checkescbar{\@gls@checkescbar#3\null}%
                           \fi
                    2840
                          \else
                    2841
```

\def\@@gls@checkescquote{\@gls@checkescquote#2\"\"\null}%

2797

```
\@gls@quotechar\string\"\@gls@encapchar}%
                                              2843
                                                              \int x^null#3\null
                                              2844
                                                                \def\@@gls@checkescbar{\@gls@checkescbar#2\|\|\null}%
                                               2845
                                                              \else
                                               2846
                                                                \def\@@gls@checkescbar{\@gls@checkescbar#2\|#3\null}%
                                               2847
                                               2848
                                                              \fi
                                               2849
                                                           \fi
                                               2850 \@@gls@checkescbar
                                               2851 }
\@gls@checkesclevel Similarly for \!:
                                               2852 \def\@gls@checkesclevel#1\!#2\!#3\null{%
                                                           \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                                               2853
                                                           \toks@={#1}%
                                               2854
                                                           \ifx\null#2\null
                                               2855
                                                              \ifx\null#3\null
                                               2856
                                                                \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                                               2857
                                               2858
                                                                \def\@@gls@checkesclevel{\relax}%
                                               2859
                                                              \else
                                                                \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                               2860
                                                                      2861
                                                                     \@gls@quotechar\string\"\@gls@levelchar}%
                                               2862
                                                                \def\@0gls0checkesclevel{\0gls0checkesclevel#3\null}%
                                               2863
                                               2864
                                                              \fi
                                                           \else
                                               2865
                                                              \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                               2866
                                                                  \@gls@quotechar\string\"\@gls@levelchar}%
                                               2867
                                                              \ifx\null#3\null
                                               2868
                                               2869
                                                                \label{local-condition} $$ \end{00gls0checkesclevel} \onumber $$ \end{00gls0checkesclevel} $$ \onumber $$ \onumb
                                               2870
                                                              \else
                                               2871
                                                                \def\@@gls@checkesclevel{\@gls@checkesclevel#2\!#3\null}%
                                              2872
                                                              \fi
                                                           \fi
                                               2873
                                               2874 \@@gls@checkesclevel
                                              2875 }
           \@gls@checkbar and for |:
                                               2876 \def \@gls@checkbar#1 | #2 | #3 \null {%
                                                           \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                                                           \toks@={#1}%
                                               2878
                                                           \ifx\null#2\null
                                               2879
                                                              \ifx\null#3\null
                                               2880
                                                                \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                                               2881
                                                                \def\@@gls@checkbar{\relax}%
                                               2882
                                                              \else
                                               2883
                                               2884
                                                                \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                                                      \@gls@quotechar\@gls@encapchar\@gls@quotechar\@gls@encapchar}%
                                               2885
                                                                \def\@@gls@checkbar{\@gls@checkbar#3\null}%
                                               2886
```

\edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@

2842

```
2887
                                                             \fi
                                             2888
                                                           \else
                                                             \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                             2889
                                                                  \@gls@quotechar\@gls@encapchar}%
                                             2890
                                                              \ifx\null#3\null
                                             2891
                                                                   \def\@@gls@checkbar{\@gls@checkbar#2||\null}%
                                             2892
                                                              \else
                                             2893
                                                                  \def\@@gls@checkbar{\@gls@checkbar#2|#3\null}%
                                             2894
                                             2895
                                             2896
                                                           \fi
                                                           \@@gls@checkbar
                                             2897
                                             2898 }
  \@gls@checklevel
                                              and for !:
                                             2899 \def\@gls@checklevel#1!#2!#3\null{%
                                                           \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                                             2900
                                                           \t 0 = {#1}%
                                             2901
                                                           \ifx\null#2\null
                                             2902
                                                                \ifx\null#3\null
                                             2903
                                                                     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                                             2904
                                                                     \def\@@gls@checklevel{\relax}%
                                             2905
                                                                \else
                                             2906
                                                                     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                             2907
                                                                     \@gls@quotechar\@gls@levelchar\@gls@quotechar\@gls@levelchar}%
                                             2908
                                             2909
                                                                     \def\@@gls@checklevel{\@gls@checklevel#3\null}%
                                             2910
                                                          \else
                                             2911
                                                                \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                             2912
                                                                \@gls@quotechar\@gls@levelchar}%
                                             2913
                                                                \int {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} % {1} %
                                             2914
                                                                     \def\@@gls@checklevel{\@gls@checklevel#2!!\null}%
                                             2915
                                             2916
                                                                \else
                                                                     \def\@@gls@checklevel{\@gls@checklevel#2!#3\null}%
                                             2917
                                                                \fi
                                             2918
                                             2919
                                                           \fi
                                                           \@@gls@checklevel
                                             2920
                                             2921 }
\@gls@checkactual and for ?:
                                             2922 \def\@gls@checkactual#1?#2?#3\null{%
                                                           \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                                             2923
                                                           \toks@={#1}%
                                             2924
                                                           \ifx\null#2\null
                                             2925
                                                                \int x^null#3\null
                                             2926
                                                                     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                                             2927
                                                                     \def\@@gls@checkactual{\relax}%
                                             2928
                                                                  \else
                                             2929
                                                                     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                                             2930
                                                                          \@gls@quotechar\@gls@actualchar\@gls@quotechar\@gls@actualchar}%
                                             2931
```

```
\else
                    2934
                             \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                    2935
                                \@gls@quotechar\@gls@actualchar}%
                    2936
                             \ifx\null#3\null
                    2937
                                \def\@@gls@checkactual{\@gls@checkactual#2??\null}%
                    2938
                    2939
                             \else
                                \def\@@gls@checkactual{\@gls@checkactual#2?#3\null}%
                    2940
                             \fi
                    2941
                            \fi
                    2942
                    2943
                          \@@gls@checkactual
                    2944 }
\@gls@xdycheckquote
                     As before but for use with xindy
                    2945 \def\@gls@xdycheckquote#1"#2"#3\null{%
                          \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
                    2946
                          \toks@={#1}%
                    2947
                    2948
                          \int x^null#2\null
                            \int x^null#3\null
                    2949
                               \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
                    2950
                               \def\@@gls@xdycheckquote{\relax}%
                    2951
                             \else
                    2952
                               \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                    2953
                    2954
                                 \string\"\string\"}%
                               \def\@@gls@xdycheckquote{\@gls@xdycheckquote#3\null}%
                    2955
                             \fi
                    2956
                            \else
                    2957
                             \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
                    2958
                               \string\"}%
                    2959
                             \int x^null#3\null
                    2960
                                \def\@@gls@xdycheckquote{\@gls@xdycheckquote#2""\null}%
                    2961
                    2962
                                \def\@@gls@xdycheckquote{\@gls@xdycheckquote#2"#3\null}%
                    2963
                    2964
                             \fi
                            \fi
                    2965
                          \@@gls@xdycheckquote
                    2966
                    2967 }
                      Need to escape all backslashes for xindy. Define command that will define
s@xdycheckbackslash
                      \@gls@xdycheckbackslash
                    2968 \edef\def@gls@xdycheckbackslash{%
                         \noexpand\def\noexpand\@gls@xdycheckbackslash##1\@backslashchar
                    2969
                           ##2\@backslashchar##3\noexpand\null{%
                    2970
                    2971
                          \noexpand\@gls@tmpb=\noexpand\expandafter
                            {\noexpand\@gls@checkedmkidx}%
                    2972
                          \noexpand\toks@={\##1}%
                    2973
                          \noexpand\ifx\noexpand\null##2\noexpand\null
                    2974
```

\def\@@gls@checkactual{\@gls@checkactual#3\null}%

2932

2933

2975

\fi

\noexpand\ifx\noexpand\null##3\noexpand\null

```
2977
                   \noexpand\def\noexpand\@@gls@xdycheckbackslash{\relax}%
           2978
           2979
                  \noexpand\else
                   \noexpand\edef\noexpand\@gls@checkedmkidx{%
           2980
                     \noexpand\the\noexpand\@gls@tmpb\noexpand\the\noexpand\toks@
           2981
                   \@backslashchar\@backslashchar\@backslashchar\%
           2982
                 \noexpand\def\noexpand\@@gls@xdycheckbackslash{%
           2983
                    \noexpand\@gls@xdycheckbackslash##3\noexpand\null}%
           2984
                  \noexpand\fi
           2985
                 \noexpand\else
           2986
                  \noexpand\edef\noexpand\@gls@checkedmkidx{%
           2987
           2988
                    \noexpand\the\noexpand\@gls@tmpb\noexpand\the\noexpand\toks@
                  \@backslashchar\@backslashchar}%
           2989
                \noexpand\ifx\noexpand\null##3\noexpand\null
           2990
                  \noexpand\def\noexpand\@@gls@xdycheckbackslash{%
           2991
                     \noexpand\@gls@xdycheckbackslash##2\@backslashchar
           2992
           2993
                     \@backslashchar\noexpand\null}%
                  \noexpand\else
           2994
                    \noexpand\def\noexpand\@@gls@xdycheckbackslash{%
           2995
                       \noexpand\@gls@xdycheckbackslash##2\@backslashchar
           2996
                          ##3\noexpand\null}%
           2997
           2998
                  \noexpand\fi
                 \noexpand\fi
           2999
                 \noexpand\@@gls@xdycheckbackslash
           3000
           3001 }%
           3002 }
             Now go ahead and define \@gls@xdycheckbackslash
           3003 \def@gls@xdycheckbackslash
  \@glslink If\hyperlink is not defined \@glslink ignores its first argument and just does
             the second argument, otherwise it is equivalent to \hyperlink.
           3004\ifcsundef{hyperlink}%
           3005 {%
           3006
                 \gdef\@glslink#1#2{#2}%
           3007 }%
           3008 {%
                 \gdef\@glslink#1#2{\hyperlink{#1}{#2}}\%
           3009
           3010}
\@glstarget If \hypertarget is not defined, \@glstarget ignores its first argument and
             just does the second argument, otherwise it is equivalent to \hypertarget.
           3011 \newlength\gls@tmplen \ifcsundef{hypertarget}%
           3012 {%
           3013 \gdef\@glstarget#1#2{#2}%
           3014 }%
           3015 {%
```

\noexpand\edef\noexpand\@gls@checkedmkidx{%

2976

```
3016 \gdef\@glstarget#1#2{%
3017 \settoheight{\gls@tmplen}{#2}%
3018 \raisebox{\gls@tmplen}{\hypertarget{#1}{}}#2%
3019 }%
3020}
```

Glossary hyperlinks can be disabled using \glsdisablehyper (effect can be localised):

\glsdisablehyper

```
3021 \newcommand{\glsdisablehyper}{%
3022 \renewcommand*\@glslink[2]{##2}%
3023 \renewcommand*\@glstarget[2]{##2}%
3024}
```

Glossary hyperlinks can be enabled using \glsenablehyper (effect can be localised):

\glsenablehyper

```
3025\newcommand{\glsenablehyper}{%
3026\renewcommand*\@glslink[2]{\hyperlink{##1}{##2}}%
3027\renewcommand*\@glstarget[2]{%
3028 \settoheight{\gls@tmplen}{##2}%
3029 \raisebox{\gls@tmplen}{\hypertarget{##1}{}}##2}}
```

Provide some convenience commands if not already defined:

```
3030 \providecommand{\@firstofthree}[3]{#1}
3031 \providecommand{\@secondofthree}[3]{#2}
3032 \providecommand{\@thirdofthree}[3]{#3}
```

Syntax:

```
\gls[\langle options \rangle] \{\langle label \rangle\} [\langle insert\ text \rangle]
```

Link to glossary entry using singular form. The link text is taken from the value of the text or first keys used when the entry was defined.

The first optional argument is a key-value list, the same as \glslink, the mandatory argument is the entry label. After the mandatory argument, there is another optional argument to insert extra text in the link text (the location of the inserted text is governed by \glsdisplay and \glsdisplayfirst). As with \glslink there is a starred version which is the same as the unstarred version but with the hyper key set to false. (Additional options can also be specified in the first optional argument.)

First determine if we are using the starred form:

\gls

```
3033 \newrobustcmd*{\gls}{\@ifstar\@sgls\@gls}
```

Define the starred form:

```
\@sgls
```

```
3034 \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
\@gls
```

```
3035\newcommand*{\@gls}[2][]{%
3036 \new@ifnextchar[{\@gls@{#1}{#2}}{\@gls@{#1}{#2}[]}%
3037}
```

\@gls@ Read in the final optional argument:

```
3038 \def\@gls@#1#2[#3]{%
3039 \glsdoifexists{#2}%
3040 {%
3041 \edef\@glo@type{\glsentrytype{#2}}%
3042 \let\glsifplural\@secondoftwo
3043 \let\glscapscase\@firstofthree
3044 \let\glscustomtext\@empty
3045 \def\glsinsert{#3}%
```

Determine whether starred or unstarred version was used:

```
3046  \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3047  \setkeys{glslink}{hyper=true,#1}%
3048  \ifKV@glslink@hyper
3049  \let\glsifhyper\@firstoftwo
3050  \else
3051  \let\glsifhyper\@secondoftwo
3052  \fi
3053  \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Determine what the link text should be (this is stored in \@glo@text)

```
3054 \def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
```

Call \@gls@link. If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyperfirst=false package option is used.

```
3055
        \ifglsused{#2}%
3056
        {%
           \gluonemath{\mbox{0gls@link[#1]{#2}{\@glo@text}\%}
3057
        }%
3058
        {%
3059
           \gls@checkisacronymlist\@glo@type
3060
           \ifthenelse
3061
           {\(\boolean{@glsisacronymlist}\AND \boolean{glsacrfootnote}\)
3062
            \OR \NOT\boolean{glshyperfirst}
3063
3064
           }%
           {%
3065
             \@gls@link[#1,hyper=false]{#2}{\@glo@text}%
3066
```

```
3067
          }%
           {%
3068
             \@gls@link[#1]{#2}{\@glo@text}%
3069
          }%
3070
        }%
3071
 Indicate that this entry has now been used
        \ifKV@glslink@local
3073
           \glslocalunset{#2}%
        \else
3074
           \glsunset{#2}%
3075
        \fi
3076
      }%
3077
```

\Gls behaves like \gls, but the first letter of the link text is converted to uppercase (note that if the first letter has an accent, the accented letter will need to be grouped when you define the entry). It is mainly intended for terms that start a sentence:

\Gls

3078}

Define the starred form:

```
3080 \newcommand*{\@sGls}[1][]{\@Gls[hyper=false,#1]}
```

Defined the un-starred form. Need to determine if there is a final optional argument

\@Gls@ Read in the final optional argument:

```
3084 \def\@Gls@#1#2[#3]{%
3085 \glsdoifexists{#2}%
3086 {%
3087 \edef\@glo@type{\glsentrytype{#2}}%
3088 \let\glsifplural\@secondoftwo
3089 \let\glscapscase\@secondofthree
3090 \let\glscustomtext\@empty
3091 \def\glsinsert{#3}%
```

Determine whether starred or unstarred version was used:

```
3092 \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3093 \setkeys{glslink}{hyper=true,#1}%
3094 \ifKV@glslink@hyper
3095 \let\glsifhyper\@firstoftwo
3096 \else
3097 \let\glsifhyper\@secondoftwo
```

```
3098
                     \fi
                     \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
3099
    Determine what the link text should be (this is stored in \@glo@text)
3100
                      \def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
    Call \@gls@link If footnote package option has been used and the glossary
    type is \acronymtype, suppress hyperlink for first use. Likewise if the hyper-
    first=false package option is used.
                     \ifglsused{#2}%
3101
3102
                     {%
                            \@gls@link[#1]{#2}{\@glo@text}%
3103
                     }%
3104
3105
                            \gls@checkisacronymlist\@glo@type
3106
                            \ifthenelse
3107
                            {%
3108
                                  \(\boolean{@glsisacronymlist}\AND \boolean{glsacrfootnote}\)
3109
                                  \OR \NOT\boolean{glshyperfirst}%
3110
                           }%
3111
                            {%
3112
                                  \@gls@link[#1,hyper=false]{#2}{\@glo@text}%
3113
                            }%
3114
3115
                                  \@gls@link[#1]{#2}{\@glo@text}%
3116
3117
                           }%
                     }%
3118
    Indicate that this entry has now been used
                     \ifKV@glslink@local
3119
                            \glslocalunset{#2}%
3120
                      \else
3121
                            \glsunset{#2}%
3122
3123
                     \fi
3124
              }%
3125 }
          \GLS behaves like \gls, but the link text is converted to uppercase:
3126 \newrobustcmd*{\GLS}{\@ifstar\@sGLS\@GLS}
    Define the starred form:
3127 \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath
    Defined the un-starred form. Need to determine if there is a final optional ar-
    gument
```

 $\label{local_solution} $$\operatorname{C}_{1}^{2}}_{\colored{1}{\#2}}_{\colored{1}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{\colored{1}}_{\colored{1}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{\colored{1}{\#2}}_{$ 

\GLS

3130 }

3128 \newcommand\*{\@GLS}[2][]{%

```
\@GLS@ Read in the final optional argument:
```

```
3131 \def\@GLS@#1#2[#3]{%
3132 \glsdoifexists{#2}%
3133 {%
3134 \edef\@glo@type{\glsentrytype{#2}}%
3135 \let\glsifplural\@secondoftwo
3136 \let\glscapscase\@thirdofthree
3137 \let\glscustomtext\@empty
3138 \def\glsinsert{#3}%
```

Determine whether starred or unstarred version was used:

```
\let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3139
3140
        \setkeys{glslink}{hyper=true,#1}%
        \ifKV@glslink@hyper
3141
          \let\glsifhyper\@firstoftwo
3142
3143
       \else
          \let\glsifhyper\@secondoftwo
3144
        \fi
3145
       \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
3146
```

Determine what the link text should be (this is stored in \@glo@text).

```
3147 \def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
```

Call \@gls@link If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyperfirst=false package option is used.

```
\ifglsused{#2}%
3148
        {%
3149
           \gluonemath{\mbox{0gls@link[#1]{#2}{\glo@text}}}
3150
        }%
3151
         {%
3152
           \gls@checkisacronymlist\@glo@type
3153
           \ifthenelse
3154
3155
              \(\boolean{@glsisacronymlist}\AND \boolean{glsacrfootnote}\)
3156
3157
              \OR \NOT\boolean{glshyperfirst}}{%
              \@gls@link[#1,hyper=false]{#2}{\@glo@text}%
3158
           }%
3159
           {%
3160
              \ensuremath{\tt 0gls0link[#1]{\#2}{\tt 0glo0text}}
3161
           }%
3162
3163
```

Indicate that this entry has now been used

```
3164 \ifKV@glslink@local
3165 \glslocalunset{#2}%
3166 \else
3167 \glsunset{#2}%
3168 \fi
3169 }%
```

```
3170}
```

\glspl behaves in the same way as \gls except it uses the plural form.

```
\glspl
```

```
{\tt 3171 \ newrobustcmd*{\glspl}{\difstar\@sglspl\@glspl}}
```

Define the starred form:

```
3172 \newcommand*{\@sglspl}[1][]{\@glspl[hyper=false,#1]}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3173 \newcommand*{\@glspl}[2][]{%
3174 \new@ifnextchar[{\@glspl@{#1}{#2}}{\@glspl@{#1}{#2}[]}%
3175}
```

## \@glspl@ Read in the final optional argument:

```
3176 \def \@glspl@#1#2[#3]{%
3177 \glsdoifexists{#2}%
3178 {%
3179 \edef \@glo@type{\glsentrytype{#2}}%
3180 \let\glsifplural \@firstoftwo
3181 \let\glscapscase\@firstofthree
3182 \let\glscustomtext\@empty
3183 \def \glsinsert{#3}%
```

### Determine whether starred or unstarred version was used:

```
3184  \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3185  \setkeys{glslink}{hyper=true,#1}%
3186  \ifKV@glslink@hyper
3187  \let\glsifhyper\@firstoftwo
3188  \else
3189  \let\glsifhyper\@secondoftwo
3190  \fi
3191  \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Determine what the link text should be (this is stored in \@glo@text)

```
3192 \def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
```

Call \@gls@link. If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyperfirst=false package option is used.

```
3193  \ifglsused{#2}%
3194  {%
3195      \@gls@link[#1]{#2}{\@glo@text}%
3196  }%
3197  {%
3198      \gls@checkisacronymlist\@glo@type
3199      \ifthenelse
3200      {%
```

```
\(\boolean{@glsisacronymlist}\AND \boolean{glsacrfootnote}\)
3201
              \OR \NOT\boolean{glshyperfirst}%
3202
          }%
3203
3204
           {%
             \@gls@link[#1,hyper=false]{#2}{\@glo@text}%
3205
           }%
3206
           {%
3207
              \ensuremath{\tt 0gls0link[#1]{\#2}{\tt 0glo0text}}\%
3208
           }%
3209
        }%
3210
 Indicate that this entry has now been used
        \ifKV@glslink@local
3211
           \glslocalunset{#2}%
3212
3213
        \else
           \glsunset{#2}%
3214
        \fi
3215
     }%
3216
3217 }
    \Glspl behaves in the same way as \glspl, except that the first letter of the
```

\Glspl behaves in the same way as \glspl, except that the first letter of the link text is converted to uppercase (as with \Gls, if the first letter has an accent, it will need to be grouped).

## \Glspl

```
3218 \newrobustcmd*{\Glspl}{\@ifstar\@sGlspl\@Glspl}
```

Define the starred form:

```
3219 \newcommand*{\@sGlspl}[1][]{\@Glspl[hyper=false,#1]}
```

Defined the un-starred form. Need to determine if there is a final optional argument

## \@Glspl@ Read in the final optional argument:

```
3223 \def\@Glspl@#1#2[#3]{%
3224 \glsdoifexists{#2}%
3225 {%
3226 \edef\@glo@type{\glsentrytype{#2}}%
3227 \let\glsifplural\@firstoftwo
3228 \let\glscapscase\@secondofthree
3229 \let\glscustomtext\@empty
3230 \def\glsinsert{#3}%
```

Determine whether starred or unstarred version was used:

```
3231 \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3232 \setkeys{glslink}{hyper=true,#1}%
```

```
3233 \ifKV@glslink@hyper
3234 \let\glsifhyper\@firstoftwo
3235 \else
3236 \let\glsifhyper\@secondoftwo
3237 \fi
3238 \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Determine what the link text should be (this is stored in \@glo@text). This needs to be expanded so that the \@glo@text can be passed to \xmakefirstuc.

```
\def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
3239
 Call \@gls@link. If footnote package option has been used and the glossary
 type is \acronymtype, suppress hyperlink for first use. Likewise if the hyper-
 first=false package option is used.
3240
        \ifglsused{#2}%
3241
        {%
          \@gls@link[#1]{#2}{\@glo@text}%
3242
        }%
3243
3244
          \gls@checkisacronymlist\@glo@type
3245
          \ifthenelse
3246
3247
            \(\boolean{@glsisacronymlist}\AND \boolean{glsacrfootnote}\)
3248
            \OR \NOT\boolean{glshyperfirst}%
3249
3250
          }%
          {%
3251
            \@gls@link[#1,hyper=false]{#2}{\@glo@text}%
3252
          }%
3253
3254
          {%
            \gluon \fi
3255
          }%
3256
        }%
3257
 Indicate that this entry has now been used
        \ifKV@glslink@local
3258
3259
          \glslocalunset{#2}%
3260
        \else
          \glsunset{#2}%
3261
        \fi
3262
     }%
3263
3264 }
```

\GLSpl behaves like \glspl except that all the link text is converted to uppercase.

```
\GLSp1
```

```
3265 \end*{\GLSpl}{\cifstar\colored} \label{lem:colored} \\
```

Define the starred form:

```
3266 \newcommand*{\@sGLSpl}[1][]{\@GLSpl[hyper=false,#1]}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3267 \newCommand*{\@GLSpl}[2][]{%
3268 \new@ifnextchar[{\@GLSpl@{#1}{#2}}{\@GLSpl@{#1}{#2}[]}%
3269}
```

### **\@GLSpl** Read in the final optional argument:

```
3270 \def\@GLSpl@#1#2[#3]{%
3271 \glsdoifexists{#2}%
3272 {%
3273 \edef\@glo@type{\glsentrytype{#2}}%
3274 \let\glsifplural\@firstoftwo
3275 \let\glscapscase\@thirdofthree
3276 \let\glscustomtext\@empty
3277 \def\glsinsert{#3}%
```

#### Determine whether starred or unstarred version was used:

```
3278  \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3279  \setkeys{glslink}{hyper=true,#1}%
3280  \ifKV@glslink@hyper
3281  \let\glsifhyper\@firstoftwo
3282  \else
3283   \let\glsifhyper\@secondoftwo
3284  \fi
3285  \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Determine what the link text should be (this is stored in \Oglo@text)

```
3286 \def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
```

Call \@gls@link. If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyperfirst=false package option is used.

```
\ifglsused{#2}%
3287
3288
           \@gls@link[#1]{#2}{\@glo@text}%
3289
        }%
3290
        {%
3291
           \gls@checkisacronymlist\@glo@type
3292
          \ifthenelse
3293
          {%
3294
             \(\boolean{@glsisacronymlist}\AND \boolean{glsacrfootnote}\)
3295
3296
             \OR \NOT\boolean{glshyperfirst}%
          }%
3297
          {%
3298
             \cline{1, hyper=false} {#2}{\cline{1, hyper=false}}
3299
          }%
3300
          {%
3301
             \@gls@link[#1]{#2}{\@glo@text}%
3302
          }%
3303
```

```
3304
                                              }%
                              Indicate that this entry has now been used
                                               \ifKV@glslink@local
                          3305
                          3306
                                                    \glslocalunset{#2}%
                                              \else
                          3307
                                                    \glsunset{#2}%
                          3308
                                              \fi
                          3309
                          3310
                                       }%
                          3311 }
                              \glsdisp[\langle options \rangle] \{\langle label \rangle\} \{\langle text \rangle\}\ This is like \glsdisp[\langle options \rangle] \{\langle label \rangle\} \{\langle text \rangle\}\ This is like \glsdisp[\langle options \rangle] \{\langle label \rangle\} \{\langle text \rangle\}\
  \glsdisp
                              text is provided. This differs from \glslink in that it uses \glsdisplay or
                               \glsdisplayfirst and unsets the first use flag.
                                    First determine if we are using the starred form:
                          3312 \ensuremath{\color=0.05cm} \label{lem:color=0.05cm} \ensuremath{\color=0.05cm} \ensuremath{\col
                              Define the starred form:
        \@sgls
                          3313 \newcommand*{\@sglsdisp}[1][]{\@glsdisp[hyper=false,#1]}
                              Defined the un-starred form.
\@glsdisp
                          3314 \neq {\glsdisp}[3][]{%
                                         \glsdoifexists{#2}{%
                                              \edef\@glo@type{\glsentrytype{#2}}%
                          3316
                          3317
                                              \let\glsifplural\@secondoftwo
                                              \let\glscapscase\@firstofthree
                          3318
                          3319
                                               \def\glscustomtext{#3}%
                                              \def\glsinsert{}%
                              Determine whether starred or unstarred version was used:
                                               \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
                          3321
                                               \setkeys{glslink}{hyper=true,#1}%
                          3322
                          3323
                                              \ifKV@glslink@hyper
                                                    \let\glsifhyper\@firstoftwo
                          3324
                                              \else
                          3325
                                                    \let\glsifhyper\@secondoftwo
                          3326
                          3327
                                              \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
                          3328
                              Determine what the link text should be (this is stored in \@glo@text)
                                               \def\@glo@text{\csname gls@\@glo@type @entryfmt\endcsname}%
                          3329
                              Call \@gls@link. If footnote package option has been used and the glossary
                              type is \acronymtype, suppress hyperlink for first use. Likewise if the hyper-
```

first=false package option is used.

```
3330
                        \ifglsused{#2}%
                 3331
                           \@gls@link[#1]{#2}{\@glo@text}%
                 3332
                        }%
                 3333
                 3334
                           \gls@checkisacronymlist\@glo@type
                 3335
                           \ifthenelse{\(\boolean{@glsisacronymlist}\AND
                 3336
                             \boolean{glsacrfootnote}\) \OR \NOT\boolean{glshyperfirst}}%
                 3337
                 3338
                             \@gls@link[#1,hyper=false]{#2}{\@glo@text}%
                 3339
                          }%
                 3340
                 3341
                           {%
                 3342
                             \@gls@link[#1]{#2}{\@glo@text}%
                 3343
                          }%
                        }%
                 3344
                  Indicate that this entry has now been used
                        \ifKV@glslink@local
                 3345
                 3346
                           \glslocalunset{#2}%
                 3347
                        \else
                           \glsunset{#2}%
                 3348
                 3349
                        \fi
                 3350 }%
                 3351 }
\@gls@field@link
                 3352 \newcommand{\@gls@field@link}[3]{%
                      \glsdoifexists{#2}%
                 3353
                 3354
                      {%
                        \edef\@glo@type{\glsentrytype{#2}}%
                 3355
                 3356
                        \0gls0link[#1]{#2}{#3}%
                      }%
                 3357
                 3358}
                    \glstext behaves like \gls except it always uses the value given by the text
                  key and it doesn't mark the entry as used.
        \glstext
                 3359 \newrobustcmd*{\glstext}{\@ifstar\@sglstext\@glstext}
                  Define the starred form:
                 3360 \newcommand*{\@sglstext}[1][]{\@glstext[hyper=false,#1]}
                  Defined the un-starred form. Need to determine if there is a final optional ar-
                  gument
                 3361 \newcommand*{\@glstext}[2][]{%
                      Read in the final optional argument:
                 3363 \def\@glstext@#1#2[#3]{%
```

```
3364
               \@gls@field@link{#1}{#2}{\glsentrytext{#2}#3}%
         3365 }
             \GLStext behaves like \glstext except the text is converted to uppercase.
\GLStext
         3366 \newrobustcmd*{\GLStext}{\@ifstar\@sGLStext\@GLStext}
           Define the starred form:
         3367 \newcommand*{\@sGLStext}[1][]{\@GLStext[hyper=false,#1]}
           Defined the un-starred form. Need to determine if there is a final optional ar-
          3368 \newcommand*{\@GLStext}[2][]{%
               \new@ifnextchar[{\@GLStext@{#1}{#2}}{\@GLStext@{#1}{#2}}]}}
           Read in the final optional argument:
          3370 \def\@GLStext@#1#2[#3]{%
               \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentrytext{#2}#3}}%
         3372 }
             \Glstext behaves like \glstext except that the first letter of the text is con-
           verted to uppercase.
\Glstext
         3373 \newrobustcmd*{\Glstext}{\@ifstar\@sGlstext\@Glstext}
           Define the starred form:
         3374\newcommand*{\@sGlstext}[1][]{\@Glstext[hyper=false,#1]}
           Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
          3375 \newcommand*{\@Glstext}[2][]{%
               \new@ifnextchar[{\@Glstext@{#1}{#2}}{\@Glstext@{#1}{#2}[]}}
           Read in the final optional argument:
          3377 \def\@Glstext@#1#2[#3]{%
               \ensuremath{\mbox{0gls@field@link{#1}{#2}{\Glsentrytext{#2}#3}}
         3379 }
             \glsfirst behaves like \gls except it always uses the value given by the first
           key and it doesn't mark the entry as used.
\glsfirst
         {\tt 3380 \ newrobustcmd*{\ lsfirst}{\tt @sglsfirst}} \\
           Define the starred form:
         3381 \newcommand*{\@sglsfirst}[1][]{\@glsfirst[hyper=false,#1]}
           Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
          3382 \newcommand*{\@glsfirst}[2][]{%
```

```
3384 \def\@glsfirst@#1#2[#3]{%
                                      \ensuremath{\tt 0gls0field0link{#1}{\#2}{\glsentryfirst{\#2}\#3}\%}
                          3385
                         3386 }
                                  \Glsfirst behaves like \glsfirst except it displays the first letter in up-
                             percase.
  \Glsfirst
                          3387 \newrobustcmd*{\Glsfirst}{\@ifstar\@sGlsfirst\@Glsfirst}
                             Define the starred form:
                         3388 \newcommand*{\@sGlsfirst}[1][]{\@Glsfirst[hyper=false,#1]}
                             Defined the un-starred form. Need to determine if there is a final optional ar-
                             gument
                          3389 \newcommand*{\@Glsfirst}[2][]{%
                                      Read in the final optional argument:
                         3391 \def\@Glsfirst@#1#2[#3]{%
                                      \end{align*} $$ \end{align*}
                         3393 }
                                   \GLSfirst behaves like \Glsfirst except it displays the text in uppercase.
  \GLSfirst
                         3394 \newrobustcmd*{\GLSfirst}{\@ifstar\@sGLSfirst\@GLSfirst}
                             Define the starred form:
                         3395 \newcommand*{\@sGLSfirst}[1][]{\@GLSfirst[hyper=false,#1]}
                             Defined the un-starred form. Need to determine if there is a final optional ar-
                             gument
                          3396 \newcommand*{\@GLSfirst}[2][]{%
                                      \new@ifnextchar[{\@GLSfirst@{#1}{#2}}{\@GLSfirst@{#1}{#2}}]}
                             Read in the final optional argument:
                          3398 \def\@GLSfirst@#1#2[#3]{%
                                      \@gls@field@link{#1}{\mfirstucMakeUppercase{\glsentryfirst{#2}#3}}%
                         3399
                         3400 }
                                   \glsplural behaves like \gls except it always uses the value given by the
                             plural key and it doesn't mark the entry as used.
\glsplural
                         3401 \newrobustcmd*{\glsplural}{\@ifstar\@sglsplural\@glsplural}
                             Define the starred form:
                          3402 \newcommand*{\@sglsplural}[1][]{\@glsplural[hyper=false,#1]}
```

Read in the final optional argument:

```
Defined the un-starred form. Need to determine if there is a final optional ar-
                                                           gument
                                                      3403 \newcommand*{\@glsplural}[2][]{%
                                                                        Read in the final optional argument:
                                                      3405 \def\@glsplural@#1#2[#3]{%
                                                                       \end{align*} $$ \end{align*}
                                                      3407 }
                                                                  \Glsplural behaves like \glsplural except that the first letter is converted
                                                           to uppercase.
                 \Glsplural
                                                      3408 \newrobustcmd*{\Glsplural}{\@ifstar\@sGlsplural\@Glsplural}
                                                           Define the starred form:
                                                      3409 \newcommand*{\@sGlsplural}[1][]{\@Glsplural[hyper=false,#1]}
                                                           Defined the un-starred form. Need to determine if there is a final optional ar-
                                                           gument
                                                      3410 \newcommand*{\@Glsplural}[2][]{%
                                                                       Read in the final optional argument:
                                                      3412 \def\@Glsplural@#1#2[#3]{%
                                                                     \OglsOfieldOlink{#1}{#2}{\Glsentryplural{#2}#3}%
                                                      3414}
                                                                   \GLSplural behaves like \glsplural except that the text is converted to
                                                           uppercase.
                 \GLSplural
                                                      3415 \ensuremath{\lower.0sGLSplural} {\cite{CLSplural}} {\cite{CLSpl
                                                           Define the starred form:
                                                      3416 \newcommand*{\@sGLSplural}[1][]{\@GLSplural[hyper=false,#1]}
                                                           Defined the un-starred form. Need to determine if there is a final optional ar-
                                                           gument
                                                      3417 \newcommand*{\@GLSplural}[2][]{%
                                                      3418 \new@ifnextchar[{\@GLSplural@{#1}{#2}}{\@GLSplural@{#1}{#2}}[]}}
                                                           Read in the final optional argument:
                                                      3419 \def\@GLSplural@#1#2[#3]{%
                                                                        \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryplural{#2}#3}}%
                                                      3420
                                                      3421 }
                                                                   \glsfirstplural behaves like \gls except it always uses the value given by
                                                           the firstplural key and it doesn't mark the entry as used.
\glsfirstplural
                                                      3422\newrobustcmd*{\glsfirstplural}{\@ifstar\@sglsfirstplural}@glsfirstplural}
```

```
3423\newcommand*{\@sglsfirstplural}[1][]{\@glsfirstplural[hyper=false,#1]}
                                      Defined the un-starred form. Need to determine if there is a final optional ar-
                                      gument
                                  3424 \newcommand*{\@glsfirstplural}[2][]{%
                                             Read in the final optional argument:
                                  3426 \def\@glsfirstplural@#1#2[#3] {%
                                              \@gls@field@link{#1}{#2}{\glsentryfirstplural{#2}#3}%
                                           \Glsfirstplural behaves like \glsfirstplural except that the first letter
                                      is converted to uppercase.
\Glsfirstplural
                                  3429 \verb| newrobustcmd*{\Glsfirstplural}{\Qlsfirstplural} \\
                                      Define the starred form:
                                  3430 \ensuremath{\mbox{\mbox{0sGlsfirstplural}[1][]{\mbox{\mbox{\mbox{0sGlsfirstplural}[hyper=false,\#1]}}}
                                      Defined the un-starred form. Need to determine if there is a final optional ar-
                                      gument
                                  3431 \newcommand*{\@Glsfirstplural}[2][]{%
                                             Read in the final optional argument:
                                  3433 \def\@Glsfirstplural@#1#2[#3]{%
                                              \label{link} $$ \end{align} $$ \en
                                  3434
                                  3435 }
                                           \GLSfirstplural behaves like \glsfirstplural except that the link text
                                      is converted to uppercase.
\GLSfirstplural
                                  3436 \verb| newrobustcmd*{\GLSfirstplural}{\closer* (GLSfirstplural)} \\
                                      Define the starred form:
                                  3437\newcommand*{\@sGLSfirstplural}[1][]{\@GLSfirstplural[hyper=false,#1]}
                                      Defined the un-starred form. Need to determine if there is a final optional ar-
                                      gument
                                  3438 \newcommand*{\@GLSfirstplural}[2][]{%
                                             \new@ifnextchar[{\@GLSfirstplural@{#1}{#2}}{\@GLSfirstplural@{#1}{#2}[]}}
                                      Read in the final optional argument:
                                  3440 \def\@GLSfirstplural@#1#2[#3]{%
                                              \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryfirstplural{#2}#3}}%
                                  3441
                                  3442 }
```

Define the starred form:

\glsname behaves like \gls except it always uses the value given by the name key and it doesn't mark the entry as used.

```
\glsname
        3443 \newrobustcmd*{\glsname}{\@ifstar\@sglsname\@glsname}
          Define the starred form:
        3444 \newcommand*{\@sglsname}[1][]{\@glsname[hyper=false,#1]}
          Defined the un-starred form. Need to determine if there is a final optional ar-
        3445 \newcommand*{\@glsname}[2][]{%
             \new@ifnextchar[{\@glsname@{#1}{#2}}{\@glsname@{#1}{#2}[]}}
          Read in the final optional argument:
        3447 \def \@glsname@#1#2[#3] {%
        3448 \@gls@field@link{#1}{#2}{\glsentryname{#2}#3}%
        3449 }
            \Glsname behaves like \glsname except that the first letter is converted to
          uppercase.
\Glsname
        3450 \newrobustcmd*{\Glsname}{\Qifstar\QsGlsname\QGlsname}
          Define the starred form:
        3451 \newcommand*{\@sGlsname}[1][]{\@Glsname[hyper=false,#1]}
          Defined the un-starred form. Need to determine if there is a final optional ar-
          gument
        3452 \newcommand*{\@Glsname}[2][]{%
             Read in the final optional argument:
        3454 \def \@Glsname@#1#2[#3] {%
        3455
              \cline{1}{\#2}{\cline{1}{\#2}}
        3456}
            \GLSname behaves like \glsname except that the link text is converted to up-
          percase.
\GLSname
        3457\newrobustcmd*{\GLSname}{\@ifstar\@sGLSname\@GLSname}
          Define the starred form:
        3458 \newcommand*{\@sGLSname}[1][]{\@GLSname[hyper=false,#1]}
          Defined the un-starred form. Need to determine if there is a final optional ar-
          gument
        3459 \newcommand*{\@GLSname} [2] [] {%
             \new@ifnextchar[{\@GLSname@{#1}{#2}}{\@GLSname@{#1}{#2}}]}
          Read in the final optional argument:
        3461 \def\@GLSname@#1#2[#3]{%
        3462 \QglsQfieldQlink{#1}{#2}{\mfirstucMakeUppercase{\glsentryname{#2}#3}}%
        3463 }
```

\glsdesc behaves like \gls except it always uses the value given by the description key and it doesn't mark the entry as used.

```
\glsdesc
        3464 \newrobustcmd*{\glsdesc}{\@ifstar\@sglsdesc\@glsdesc}
          Define the starred form:
        3465\newcommand*{\@sglsdesc}[1][]{\@glsdesc[hyper=false,#1]}
          Defined the un-starred form. Need to determine if there is a final optional ar-
          gument
        3466 \newcommand*{\@glsdesc}[2][]{%
             Read in the final optional argument:
        3468 \ensuremath{\mbox{def}\@glsdesc@#1#2[#3]{\%}}
             \cline{1}{\#2}{\cline{1}{\#3}}
            \Glsdesc behaves like \glsdesc except that the first letter is converted to
          uppercase.
\Glsdesc
        3471 \newrobustcmd*{\Glsdesc}{\@ifstar\@sGlsdesc\@Glsdesc}
          Define the starred form:
        3472 \newcommand*{\@sGlsdesc}[1][]{\@Glsdesc[hyper=false,#1]}
          Defined the un-starred form. Need to determine if there is a final optional ar-
          gument
```

Read in the final optional argument:

```
3475\def\@Glsdesc@#1#2[#3]{%
3476 \@gls@field@link{#1}{#2}{\Glsentrydesc{#2}#3}%
3477}
```

\GLSdesc behaves like \glsdesc except that the link text is converted to uppercase.

\GLSdesc

```
3478 \verb|\newrobustcmd*{\GLSdesc}{\Qifstar\QsGLSdesc\QGLSdesc}|
```

Define the starred form:

```
3479 \newcommand*{\@sGLSdesc}[1][]{\@GLSdesc[hyper=false,#1]}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3480 \newcommand*{\@GLSdesc}[2][]{%
3481 \new@ifnextchar[{\@GLSdesc@{#1}{#2}}{\@GLSdesc@{#1}{#2}[]}}
```

```
Read in the final optional argument:
                                3482 \def \@GLSdesc@#1#2 \[ #3 \] {\%
                                           3484 }
                                         \glsdescplural behaves like \gls except it always uses the value given by
                                    the description plural key and it doesn't mark the entry as used.
\glsdescplural
                                3485\newrobustcmd*{\glsdescplural}{\@ifstar\@sglsdescplural\@glsdescplural}
                                    Define the starred form:
                                3486\newcommand*{\@sglsdescplural}[1][]{\@glsdescplural[hyper=false,#1]}
                                    Defined the un-starred form. Need to determine if there is a final optional ar-
                                    gument
                                3487 \newcommand*{\@glsdescplural}[2][]{%
                                            Read in the final optional argument:
                                3489 \def\@glsdescplural@#1#2[#3]{%
                                            \end{align*} $$ \end{align*}
                                3491 }
                                         \Glsdescplural behaves like \glsdescplural except that the first letter is
                                    converted to uppercase.
\Glsdescplural
                                3492 \verb| newrobustcmd*{Glsdescplural}{(@ifstar)@sGlsdescplural)} \\
                                    Define the starred form:
                                3493 \newcommand*{\@sGlsdescplural}[1][]{\@Glsdescplural[hyper=false,#1]}
                                    Defined the un-starred form. Need to determine if there is a final optional ar-
                                    gument
                                3494 \newcommand*{\@Glsdescplural}[2][]{%
                                           Read in the final optional argument:
                                3496 \def \@Glsdescplural@#1#2[#3]{%
                                           \@gls@field@link{#1}{#2}{\Glsentrydescplural{#2}#3}%
                                3498 }
                                        \GLSdescplural behaves like \glsdescplural except that the link text is
                                    converted to uppercase.
\GLSdescplural
                                3499 \newrobustcmd*{\GLSdescplural}{\@ifstar\@sGLSdescplural\@GLSdescplural}
```

3500 \newcommand\*{\@sGLSdescplural}[1][]{\@GLSdescplural[hyper=false,#1]}

Define the starred form:

```
Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
         3501 \newcommand*{\@GLSdescplural}[2][]{%
              Read in the final optional argument:
         3503 \def\@GLSdescplural@#1#2[#3]{%
              \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentrydescplural{#2}#3}}%
         3505 }
             \glssymbol behaves like \gls except it always uses the value given by the
           symbol key and it doesn't mark the entry as used.
\glssymbol
         3506 \newrobustcmd*{\glssymbol}{\@ifstar\@sglssymbol\@glssymbol}
           Define the starred form:
         3507 \newcommand*{\@sglssymbol}[1][]{\@glssymbol[hyper=false,#1]}
           Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
         3508 \newcommand*{\@glssymbol}[2][]{%
              Read in the final optional argument:
         3510 \ensuremath{\mbol@\#1\#2[\#3]}{\%}
         3511
              \cline{1}{\#2}{\cline{1}{\#2}}%
         3512 }
             \Glssymbol behaves like \glssymbol except that the first letter is converted
           to uppercase.
\Glssymbol
         3513 \newrobustcmd*{\Glssymbol}{\@ifstar\@sGlssymbol\@Glssymbol}
           Define the starred form:
         3514 \newcommand*{\@sGlssymbol}[1][]{\@Glssymbol[hyper=false,#1]}
           Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
         3515 \newcommand*{\@Glssymbol}[2][]{%
              Read in the final optional argument:
         3517 \def\@Glssymbol@#1#2[#3]{%
              \cline{1}{\#2}{\cline{1}{\#2}}%
         3518
         3519}
             \GLSsymbol behaves like \glssymbol except that the link text is converted
           to uppercase.
```

3520 \newrobustcmd\*{\GLSsymbol}{\@ifstar\@sGLSsymbol\@GLSsymbol}

\GLSsymbol

```
Define the starred form:
3521 \newcommand*{\@sGLSsymbol}[1][]{\@GLSsymbol[hyper=false,#1]}
 Defined the un-starred form. Need to determine if there is a final optional ar-
 gument
3522 \newcommand*{\@GLSsymbol}[2][]{%
     Read in the final optional argument:
3524 \def\@GLSsymbol@#1#2[#3]{%
     \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentrysymbol{#2}#3}}%
3526 }
   \glssymbolplural behaves like \gls except it always uses the value given
 by the symbolplural key and it doesn't mark the entry as used.
3527 \newrobustcmd*{\glssymbolplural}{\@ifstar\@sglssymbolplural\@glssymbolplural}
 Define the starred form:
3528 \newcommand*{\@sglssymbolplural}[1][]{\@glssymbolplural[hyper=false,#1]}
 Defined the un-starred form. Need to determine if there is a final optional ar-
 gument
3529 \newcommand*{\@glssymbolplural}[2][]{%
     \label{localized} $$\operatorname{constant}(\glssymbolplural0{\#1}{\#2}}_{\glssymbolplural0{\#1}{\#2}}]}$
 Read in the final optional argument:
3531 \def\@glssymbolplural@#1#2[#3]{%
     \OglsOfieldOlink{#1}{#2}{\glsentrysymbolplural{#2}#3}%
3532
3533 }
   \Glssymbolplural behaves like \glssymbolplural except that the first
 letter is converted to uppercase.
3534 \newrobustcmd*{\Glssymbolplural}{\@ifstar\@sGlssymbolplural}
 Define the starred form:
3535\newcommand*{\@sGlssymbolplural}[1][]{\@Glssymbolplural[hyper=false,#1]}
 Defined the un-starred form. Need to determine if there is a final optional ar-
 gument
3536 \newcommand*{\@Glssymbolplural}[2][]{%
     Read in the final optional argument:
3538 \def\@Glssymbolplural@#1#2[#3]{%
```

\glssymbolplural

\Glssymbolplural

3539 3540 }

 $\GLSsymbol$ plural behaves like  $\glssymbol$ plural except that the link text is converted to uppercase.

\@gls@field@link{#1}{#2}{\Glsentrysymbolplural{#2}#3}%

```
\GLSsymbolplural
               3541 \newrobustcmd*{\GLSsymbolplural}{\@ifstar\@sGLSsymbolplural}
                 Define the starred form:
               3542 \newcommand*{\@sGLSsymbolplural}[1][]{\@GLSsymbolplural[hyper=false,#1]}
                 Defined the un-starred form. Need to determine if there is a final optional ar-
                3543 \newcommand*{\@GLSsymbolplural}[2][]{%
                    Read in the final optional argument:
                3545 \def\@GLSsymbolplural@#1#2[#3]{%
                3546 \QglsQfieldQlink{#1}{#2}{\mfirstucMakeUppercase{\glsentrysymbolplural{#2}#3}}%
               3547 }
                   \glsuseri behaves like \gls except it always uses the value given by the
                 user1 key and it doesn't mark the entry as used.
      \glsuseri
               3548 \newrobustcmd*{\glsuseri}{\@ifstar\@sglsuseri\@glsuseri}
                 Define the starred form:
               3549 \newcommand*{\@sglsuseri}[1][]{\@glsuseri[hyper=false,#1]}
                 Defined the un-starred form. Need to determine if there is a final optional ar-
                 gument
                3550 \newcommand*{\@glsuseri}[2][]{%
                     Read in the final optional argument:
                3552 \def\@glsuseri@#1#2[#3]{%
               3553
                     \@gls@field@link{#1}{#2}{\glsentryuseri{#2}#3}%
               3554 }
                   \Glsuseri behaves like \glsuseri except that the first letter is converted to
                 uppercase.
      \Glsuseri
               3555 \newrobustcmd*{\Glsuseri}{\@ifstar\@sGlsuseri\@Glsuseri}
                 Define the starred form:
                3556 \newcommand*{\@sGlsuseri}[1][]{\@Glsuseri[hyper=false,#1]}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3557 \newcommand*{\@Glsuseri}[2][]{%
3558 \new@ifnextchar[{\@Glsuseri@{#1}{#2}}{\@Glsuseri@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3559 \def\@Glsuseri@#1#2[#3]{%
3560 \@gls@field@link{#1}{#2}{\Glsentryuseri{#2}#3}%
3561}
```

\GLSuseri behaves like \glsuseri except that the link text is converted to uppercase.

```
\GLSuseri
                            3562 \newrobustcmd*{\GLSuseri}{\@ifstar\@sGLSuseri\@GLSuseri}
                                Define the starred form:
                            3563 \newcommand*{\@sGLSuseri}[1][]{\@GLSuseri[hyper=false,#1]}
                                Defined the un-starred form. Need to determine if there is a final optional ar-
                                gument
                            3564 \newcommand*{\@GLSuseri}[2][]{%
                                          Read in the final optional argument:
                            3566 \def\@GLSuseri@#1#2[#3]{%
                                          \@gls@field@link{#1}{\mfirstucMakeUppercase{\glsentryuseri{#2}#3}}%
                            3568 }
                                      \glsuserii behaves like \gls except it always uses the value given by the
                                user2 key and it doesn't mark the entry as used.
\glsuserii
                            {\tt 3569 \ newrobustcmd*{\ lsuserii}{\ lsuserii}} a single {\tt lsuserii}{\ lsuserii} {\tt lsuserii}{\tt ls
                                Define the starred form:
                            3570 \newcommand*{\@sglsuserii}[1][]{\@glsuserii[hyper=false,#1]}
                                Defined the un-starred form. Need to determine if there is a final optional ar-
                                gument
                            3571 \newcommand*{\@glsuserii}[2][]{%
                                          Read in the final optional argument:
                            3573 \def\@glsuserii@#1#2[#3]{%
                            3574
                                          \@gls@field@link{#1}{#2}{\glsentryuserii{#2}#3}%
                            3575 }
                                     \Glsuserii behaves like \glsuserii except that the first letter is converted
                                to uppercase.
\Glsuserii
                            3576 \newrobustcmd*{\Glsuserii}{\@ifstar\@sGlsuserii\@Glsuserii}
                                Define the starred form:
                            3577 \newcommand*{\@sGlsuserii}[1][]{\@Glsuserii[hyper=false,#1]}
                                Defined the un-starred form. Need to determine if there is a final optional ar-
                                gument
                            3578 \newcommand*{\@Glsuserii}[2][]{%
```

```
3580 \def\@Glsuserii@#1#2[#3]{%
                                       \label{link} $$ \end{align} $$ \en
                          3581
                          3582 }
                                   \GLSuserii behaves like \glsuserii except that the link text is converted
                              to uppercase.
  \GLSuserii
                           3583 \newrobustcmd*{\GLSuserii}{\@ifstar\@sGLSuserii\@GLSuserii}
                              Define the starred form:
                          3584 \newcommand*{\@sGLSuserii}[1][]{\@GLSuserii[hyper=false,#1]}
                              Defined the un-starred form. Need to determine if there is a final optional ar-
                              gument
                           3585 \newcommand*{\@GLSuserii}[2][]{%
                                       Read in the final optional argument:
                           3587 \def\@GLSuserii@#1#2[#3]{%
                                       \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuserii{#2}#3}}%
                          3589 }
                                    \glsuseriii behaves like \gls except it always uses the value given by the
                              user3 key and it doesn't mark the entry as used.
\glsuseriii
                          3590 \newrobustcmd*{\glsuseriii}{\@ifstar\@sglsuseriii\@glsuseriii}
                              Define the starred form:
                          3591 \newcommand*{\@sglsuseriii}[1][]{\@glsuseriii[hyper=false,#1]}
                              Defined the un-starred form. Need to determine if there is a final optional ar-
                              gument
                           3592 \newcommand*{\@glsuseriii}[2][]{%
                                       Read in the final optional argument:
                          3594 \def\@glsuseriii@#1#2[#3]{%
                                      \@gls@field@link{#1}{#2}{\glsentryuseriii{#2}#3}%
                           3596 }
                                   \Glsuseriii behaves like \glsuseriii except that the first letter is con-
                              verted to uppercase.
\Glsuseriii
                           3597 \newrobustcmd*{\Glsuseriii}{\@ifstar\@sGlsuseriii\@Glsuseriii}
                              Define the starred form:
                           3598 \newcommand*{\@sGlsuseriii}[1][]{\@Glsuseriii[hyper=false,#1]}
```

Read in the final optional argument:

```
gument
          3599 \newcommand*{\@Glsuseriii}[2][]{%
               Read in the final optional argument:
          3601 \def\@Glsuseriii@#1#2[#3]{%
               \@gls@field@link{#1}{#2}{\Glsentryuseriii{#2}#3}%
          3603 }
              \GLSuseriii behaves like \glsuseriii except that the link text is con-
            verted to uppercase.
\GLSuseriii
          3604 \newrobustcmd*{\GLSuseriii}{\@ifstar\@sGLSuseriii\@GLSuseriii}
            Define the starred form:
          3605 \newcommand*{\@sGLSuseriii}[1][]{\@GLSuseriii[hyper=false,#1]}
            Defined the un-starred form. Need to determine if there is a final optional ar-
            gument
          3606 \newcommand*{\@GLSuseriii}[2][]{%
               Read in the final optional argument:
          3608 \def\@GLSuseriii@#1#2[#3]{%
          3609
               \@gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuseriii{#2}#3}}%
          3610 }
              \glsuseriv behaves like \gls except it always uses the value given by the
            user4 key and it doesn't mark the entry as used.
\glsuseriv
          3611 \newrobustcmd*{\glsuseriv}{\@ifstar\@sglsuseriv\@glsuseriv}
            Define the starred form:
          3612 \newcommand*{\@sglsuseriv}[1][]{\@glsuseriv[hyper=false,#1]}
            Defined the un-starred form. Need to determine if there is a final optional ar-
            gument
          3613 \newcommand*{\@glsuseriv}[2][]{%
               Read in the final optional argument:
          3615 \def\@glsuseriv@#1#2[#3]{%
               \cline{1}{\#2}{\cline{1}{\#2}}{\cline{1}{\#2}}%
          3617 }
              \Glsuseriv behaves like \glsuseriv except that the first letter is converted
            to uppercase.
\Glsuseriv
          3618 \newrobustcmd*{\Glsuseriv}{\@ifstar\@sGlsuseriv\@Glsuseriv}
```

Defined the un-starred form. Need to determine if there is a final optional ar-

```
Define the starred form:
3619 \newcommand*{\@sGlsuseriv}[1][]{\@Glsuseriv[hyper=false,#1]}
    Defined the un-starred form. Need to determine if there is a final optional ar-
    gument
3620 \newcommand*{\@Glsuseriv}[2][]{%
             Read in the final optional argument:
3622 \def\@Glsuseriv@#1#2[#3]{%
             \OglsOfieldOlink{#1}{#2}{\Glsentryuseriv{#2}#3}%
3624 }
         \GLSuseriv behaves like \glsuseriv except that the link text is converted
    to uppercase.
3625 \newrobustcmd*{\GLSuseriv}{\@ifstar\@sGLSuseriv\@GLSuseriv}
    Define the starred form:
3626 \newcommand*{\@sGLSuseriv}[1][]{\@GLSuseriv[hyper=false,#1]}
    Defined the un-starred form. Need to determine if there is a final optional ar-
    gument
3627 \newcommand*{\@GLSuseriv}[2][]{%
            Read in the final optional argument:
3629 \def\@GLSuseriv@#1#2[#3]{%
3630
             \label{linkspace} $$ \end{align} $
3631 }
          \glsuserv behaves like \gls except it always uses the value given by the
    user5 key and it doesn't mark the entry as used.
3632 \newrobustcmd*{\glsuserv}{\@ifstar\@sglsuserv\@glsuserv}
    Define the starred form:
3633 \newcommand*{\@sglsuserv}[1][]{\@glsuserv[hyper=false,#1]}
    Defined the un-starred form. Need to determine if there is a final optional ar-
```

\glsuserv

\GLSuseriv

gument

```
3634 \newcommand*{\@glsuserv}[2][]{%
```

Read in the final optional argument:

```
3636 \def\@glsuserv@#1#2[#3]{%
                                                                                                                               \end{align*} $$ \end{align*}
3637
3638 }
```

\Glsuserv behaves like \glsuserv except that the first letter is converted to uppercase.

```
3639 \newrobustcmd*{\Glsuserv}{\@ifstar\@sGlsuserv\@Glsuserv}
            Define the starred form:
          3640 \newcommand*{\@sGlsuserv}[1][]{\@Glsuserv[hyper=false,#1]}
            Defined the un-starred form. Need to determine if there is a final optional ar-
          3641 \newcommand*{\@Glsuserv}[2][]{%
          3642 \new@ifnextchar[{\CGlsuserv@{#1}{#2}}{\CGlsuserv@{#1}{#2}}]}
            Read in the final optional argument:
          3643 \def\@Glsuserv@#1#2[#3]{%
          3644 \QglsQfieldQlink{#1}{#2}{\Glsentryuserv{#2}#3}%
          3645 }
              \GLSuserv behaves like \glsuserv except that the link text is converted to
            uppercase.
\GLSuserv
          3646 \newrobustcmd*{\GLSuserv}{\@ifstar\@sGLSuserv\@GLSuserv}
            Define the starred form:
          3647 \newcommand*{\@sGLSuserv}[1][]{\@GLSuserv[hyper=false,#1]}
            Defined the un-starred form. Need to determine if there is a final optional ar-
            gument
          3648 \newcommand*{\@GLSuserv}[2][]{%
          3649 \new@ifnextchar[{\CGLSuserv@{#1}{#2}}{\CGLSuserv@{#1}{#2}[]}}
            Read in the final optional argument:
          3650 \def\@GLSuserv@#1#2[#3]{%
          3651
                \@gls@field@link{#1}{\mfirstucMakeUppercase{\glsentryuserv{#2}#3}}%
          3652 }
              \glsuservi behaves like \gls except it always uses the value given by the
            user6 key and it doesn't mark the entry as used.
\glsuservi
          3653 \newrobustcmd*{\glsuservi}{\@ifstar\@sglsuservi\@glsuservi}
            Define the starred form:
          3654 \newcommand*{\@sglsuservi}[1][]{\@glsuservi[hyper=false,#1]}
            Defined the un-starred form. Need to determine if there is a final optional ar-
            gument
          3655 \newcommand*{\@glsuservi}[2][]{%
               Read in the final optional argument:
          3657 \def\@glsuservi@#1#2[#3]{%
               \@gls@field@link{#1}{#2}{\glsentryuservi{#2}#3}%
          3658
          3659 }
```

\Glsuserv

\Glsuservi behaves like \glsuservi except that the first letter is converted to uppercase.

\Glsuservi

```
3660 \newrobustcmd*{\Glsuservi}{\@ifstar\@sGlsuservi\@Glsuservi}
                            Define the starred form:
                        3661 \newcommand*{\@sGlsuservi}[1][]{\@Glsuservi[hyper=false,#1]}
                            Defined the un-starred form. Need to determine if there is a final optional ar-
                            gument
                         3662 \newcommand*{\@Glsuservi}[2][]{%
                                     Read in the final optional argument:
                         3664 \def\@Glsuservi@#1#2[#3]{%
                                     \end{align*} $$ \end{align*}
                         3665
                        3666 }
                                 \GLSuservi behaves like \glsuservi except that the link text is converted
                            to uppercase.
\GLSuservi
                        3667 \newrobustcmd*{\GLSuservi}{\@ifstar\@sGLSuservi\@GLSuservi}
                            Define the starred form:
                         3668 \newcommand*{\@sGLSuservi}[1][]{\@GLSuservi[hyper=false,#1]}
                            Defined the un-starred form. Need to determine if there is a final optional ar-
                            gument
                         3669 \newcommand*{\@GLSuservi}[2][]{%
                         3670 \new@ifnextchar[{\@GLSuservi@{#1}{#2}}{\@GLSuservi@{#1}{#2}}[]}}
                            Read in the final optional argument:
                         3671 \def\@GLSuservi@#1#2[#3]{%
                         3672 \QglsQfieldQlink{#1}{#2}{\mfirstucMakeUppercase{\glsentryuservi{#2}#3}}%
                         3673 }
                                 Now deal with acronym related keys. First the short form:
  \acrshort
                         3674 \newrobustcmd*{\acrshort}{\@ifstar\s@acrshort\ns@acrshort}
                            Define the starred form:
                        3675 \newcommand*{\s@acrshort}[2][]{%
                        3676 \new@ifnextchar[{\@acrshort{hyper=false,#1}{#2}}%
                                                                           {\@acrshort{hyper=false,#1}{#2}[]}%
                        3678 }
                            Defined the un-starred form. Need to determine if there is a final optional ar-
                            gument
                         3679 \newcommand*{\ns@acrshort}[2][]{%
                                    3681 }
```

```
Read in the final optional argument:
```

3713

3714

{%

```
3682 \def\@acrshort#1#2 [#3] {%
               \glsdoifexists{#2}%
         3683
               {%
         3684
                 \edef\@glo@type{\glsentrytype{#2}}%
         3685
                 \let\glsifplural\@secondoftwo
         3686
                 \let\glscapscase\@firstofthree
         3687
                 \let\glsinsert\@empty
         3688
                 \def\glscustomtext{%
         3689
                   \acronymfont{\glsentryshort{#2}}#3%
         3690
         3691
           Determine whether starred or unstarred version was used:
                 \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
         3692
                 \setkeys{glslink}{hyper=true,#1}%
         3693
                 \ifKV@glslink@hyper
         3694
                   \let\glsifhyper\@firstoftwo
         3695
         3696
         3697
                   \let\glsifhyper\@secondoftwo
         3698
                 \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
         3699
           Call \@gls@link
                 \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
         3701
              }%
         3702 }
\Acrshort
         3703 \newrobustcmd*{\Acrshort}{\@ifstar\s@Acrshort\ns@Acrshort}
           Define the starred form:
         3704 \newcommand*{\s@Acrshort}[2][]{%
               \new@ifnextchar[{\@Acrshort{hyper=false,#1}{#2}}%
         3705
         3706
                               {\@Acrshort{hyper=false,#1}{#2}[]}%
         3707 }
           Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
         3708 \newcommand*{\ns@Acrshort}[2][]{%
               3710 }
           Read in the final optional argument:
         3711 \def\@Acrshort#1#2[#3]{%
               \glsdoifexists{#2}%
         3712
```

\edef\@glo@type{\glsentrytype{#2}}%

```
3715
                 \def\glslabel{#2}%
                 \let\glsifplural\@secondoftwo
         3716
         3717
                 \let\glscapscase\@secondofthree
                 \let\glsinsert\@empty
         3718
         3719
                 \def\glscustomtext{%
                   \acronymfont{\Glsentryshort{#2}}#3%
         3720
         3721
           Determine whether starred or unstarred version was used:
                 \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
         3722
                 \setkeys{glslink}{hyper=true,#1}%
         3723
                 \ifKV@glslink@hyper
         3724
                   \let\glsifhyper\@firstoftwo
         3725
                 \else
         3726
         3727
                   \let\glsifhyper\@secondoftwo
         3728
                 \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
         3729
           Call \@gls@link
                 \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
         3730
               }%
         3731
         3732 }
\ACRshort
         3733 \newrobustcmd*{\ACRshort}{\@ifstar\s@ACRshort\ns@ACRshort}
           Define the starred form:
         3734 \newcommand*{\s@ACRshort}[2][]{%
              \new@ifnextchar[{\@ACRshort{hyper=false,#1}{#2}}%
         3736
                               {\@ACRshort{hyper=false,#1}{#2}[]}%
         3737 }
           Defined the un-starred form. Need to determine if there is a final optional ar-
           gument
         3738 \newcommand*{\ns@ACRshort}[2][]{%
               3740 }
           Read in the final optional argument:
         3741 \def\@ACRshort#1#2[#3]{%
               \glsdoifexists{#2}%
         3742
               {%
         3743
         3744
                 \edef\@glo@type{\glsentrytype{#2}}%
                 \def\glslabel{#2}%
         3745
                 \let\glsifplural\@secondoftwo
         3746
                 \let\glscapscase\@thirdofthree
         3747
                 \let\glsinsert\@empty
         3748
         3749
                 \def\glscustomtext{%
                   \mfirstucMakeUppercase{\acronymfont{\glsentryshort{#2}}}#3}%
         3750
```

3751

}%

```
Determine whether starred or unstarred version was used:
```

```
\let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3752
        \setkeys{glslink}{hyper=true,#1}%
3753
       \ifKV@glslink@hyper
3754
          \let\glsifhyper\@firstoftwo
3755
        \else
3756
          \let\glsifhyper\@secondoftwo
3757
3758
3759
        \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
 Call \@gls@link
3760
        \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
     }%
3761
3762 }
   Short plural:
```

### \acrshortpl

 ${\tt 3763 \backslash newrobustcmd*{\tt acrshortpl}{\tt 0ifstar\backslash s@acrshortpl\backslash ns@acrshortpl}}$ 

#### Define the starred form:

Defined the un-starred form. Need to determine if there is a final optional argument

#### Read in the final optional argument:

```
3771 \def\@acrshortpl#1#2[#3]{%
     \glsdoifexists{#2}%
3773
     {%
        \edef\@glo@type{\glsentrytype{#2}}%
3774
        \def\glslabel{#2}%
3775
3776
        \let\glsifplural\@firstoftwo
       \let\glscapscase\@firstofthree
3777
       \let\glsinsert\@empty
3778
3779
       \def\glscustomtext{%
          \acronymfont{\glsentryshortpl{#2}}#3%
3780
       }%
3781
```

## Determine whether starred or unstarred version was used:

```
3782  \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3783  \setkeys{glslink}{hyper=true,#1}%
3784  \ifKV@glslink@hyper
3785  \let\glsifhyper\@firstoftwo
```

```
3786
                  \else
                     \let\glsifhyper\@secondoftwo
           3787
           3788
                   \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
           3789
             Call \@gls@link
                   \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
                }%
           3791
           3792 }
\Acrshortpl
           3793 \newrobustcmd*{\Acrshortpl}{\@ifstar\s@Acrshortpl\ns@Acrshortpl}
             Define the starred form:
           3794 \newcommand*{\s@Acrshortpl}[2][]{%
                 \new@ifnextchar[{\@Acrshortpl{hyper=false,#1}{#2}}%
           3796
                                 {\@Acrshortpl{hyper=false,#1}{#2}[]}%
           3797 }
             Defined the un-starred form. Need to determine if there is a final optional ar-
           3798 \newcommand*{\ns@Acrshortpl}[2][]{%
                 3800 }
             Read in the final optional argument:
           3801 \def\@Acrshortpl#1#2[#3]{%
                 \glsdoifexists{#2}%
           3802
           3803
                 {%
                   \edef\@glo@type{\glsentrytype{#2}}%
           3804
                   \def\glslabel{#2}%
           3805
           3806
                   \let\glsifplural\@firstoftwo
                   \let\glscapscase\@secondofthree
           3807
                   \let\glsinsert\@empty
           3808
           3809
                   \def\glscustomtext{%
                     \acronymfont{\Glsentryshortpl{#2}}#3%
           3810
           3811
             Determine whether starred or unstarred version was used:
                   \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
           3812
                   \setkeys{glslink}{hyper=true,#1}%
           3813
                   \ifKV@glslink@hyper
           3814
           3815
                     \let\glsifhyper\@firstoftwo
                  \else
           3816
```

```
\let\glsifhyper\@secondoftwo
3817
3818
3819
       \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Call \@gls@link

\@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}% 3820

```
3821
                }%
           3822 }
\ACRshortpl
           3823 \newrobustcmd*{\ACRshortpl}{\@ifstar\s@ACRshortpl\ns@ACRshortpl}
             Define the starred form:
           3824 \newcommand*{\s@ACRshortpl}[2][]{%
                 \new@ifnextchar[{\@ACRshortpl{hyper=false,#1}{#2}}%
                                 {\@ACRshortpl{hyper=false,#1}{#2}[]}%
           3826
           3827 }
             Defined the un-starred form. Need to determine if there is a final optional ar-
             gument
           3828 \newcommand*{\ns@ACRshortpl}[2][]{%
                 3829
           3830 }
             Read in the final optional argument:
           3831 \def\@ACRshortpl#1#2[#3]{%
                 \glsdoifexists{#2}%
           3832
                 {%
           3833
                   \edef\@glo@type{\glsentrytype{#2}}%
           3834
                   \def\glslabel{#2}%
           3835
           3836
                   \let\glsifplural\@firstoftwo
                   \let\glscapscase\@thirdofthree
           3837
           3838
                   \let\glsinsert\@empty
                   \def\glscustomtext{%
           3839
                     \mfirstucMakeUppercase{\acronymfont{\glsentryshortpl{#2}}#3}%
           3840
           3841
             Determine whether starred or unstarred version was used:
                   \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
           3842
                   \setkeys{glslink}{hyper=true,#1}%
           3843
                   \ifKV@glslink@hyper
           3844
           3845
                     \let\glsifhyper\@firstoftwo
                   \else
           3846
                     \let\glsifhyper\@secondoftwo
           3847
           3848
                   \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
           3849
             Call \@gls@link
```

\acrlong

3850

3851 3852 } }%

3853 \newrobustcmd\*{\acrlong}{\@ifstar\s@acrlong\ns@acrlong}

\@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%

```
Define the starred form:
```

```
3854 \newcommand*{\s@acrlong}[2][]{%
3855 \new@ifnextchar[{\@acrlong{hyper=false,#1}{#2}}%
3856 {\@acrlong{hyper=false,#1}{#2}[]}%
3857}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3858 \newcommand*{\ns@acrlong}[2][]{%  
3859 \new@ifnextchar[{\@acrlong{#1}{#2}}{\@acrlong{#1}{#2}[]}%  
3860}
```

Read in the final optional argument:

```
3861 \def \@acrlong#1#2[#3] {%
3862 \glsdoifexists{#2}%
3863 {%
3864 \edef \@glo@type{\glsentrytype{#2}}%
3865 \def \glslabel{#2}%
3866 \let \glsifplural \@secondoftwo
3867 \let \glscapscase \@firstofthree
3868 \let \glsinsert \@empty
```

Determine whether starred or unstarred version was used:

```
3869  \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3870  \setkeys{glslink}{hyper=true,#1}%
3871  \ifKV@glslink@hyper
3872  \let\glsifhyper\@firstoftwo
3873  \else
3874  \let\glsifhyper\@secondoftwo
3875  \fi
3876  \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Bug fix v4.02 removed  $\acronymfont$  from  $\glscustomtext$  ( $\acronymfont$  only designed for short form).

```
3877  \def\glscustomtext{%
3878   \glsentrylong{#2}#3%
3879   }%
Call \@gls@link
3880   \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
3881  }%
3882}
```

\Acrlong

 ${\tt 3883 \ newrobustcmd*{\Acrlong}{\Cifstar\s@Acrlong\ns@Acrlong}}$ 

# Define the starred form:

```
3884 \newcommand*{\s@Acrlong}[2][]{%
3885 \new@ifnextchar[{\@Acrlong{hyper=false,#1}{#2}}%
3886 {\@Acrlong{hyper=false,#1}{#2}[]}%
3887}
```

```
Defined the un-starred form. Need to determine if there is a final optional argument
```

### Read in the final optional argument:

```
3891 \def\@Acrlong#1#2[#3]{%
3892 \glsdoifexists{#2}%
3893 {%
3894 \edef\@glo@type{\glsentrytype{#2}}%
3895 \def\glslabel{#2}%
3896 \let\glsifplural\@secondoftwo
3897 \let\glscapscase\@secondofthree
3898 \let\glsinsert\@empty
```

### Determine whether starred or unstarred version was used:

```
\let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3899
        \setkeys{glslink}{hyper=true,#1}%
3900
        \ifKV@glslink@hyper
3901
          \let\glsifhyper\@firstoftwo
3902
        \else
3903
3904
          \let\glsifhyper\@secondoftwo
       \fi
3905
       \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
3906
```

Bug fix v4.02 removed  $\acronymfont$  from  $\glscustomtext$  ( $\acronymfont$  only designed for short form).

### \ACRlong

3913 \newrobustcmd\*{\ACRlong}{\@ifstar\s@ACRlong\ns@ACRlong}

# Define the starred form:

```
3914 \newcommand*{\s@ACRlong}[2][]{%
3915 \new@ifnextchar[{\@ACRlong{hyper=false,#1}{#2}}%
3916 {\@ACRlong{hyper=false,#1}{#2}[]}%
3917}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3918 \newcommand*{\ns@ACRlong}[2][]{%
3919 \new@ifnextchar[{\@ACRlong{#1}{#2}}{\@ACRlong{#1}{#2}[]}%
3920}
```

```
Read in the final optional argument:
```

```
3921 \def \@ACRlong#1#2[#3]{%
3922 \glsdoifexists{#2}%
3923 {%
3924 \edef \@glo@type{\glsentrytype{#2}}%
3925 \def \glslabel{#2}%
3926 \let \glsifplural \@secondoftwo
3927 \let \glscapscase \@thirdofthree
3928 \let \glsinsert \@empty
```

## Determine whether starred or unstarred version was used:

```
3929  \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3930  \setkeys{glslink}{hyper=true,#1}%
3931  \ifKV@glslink@hyper
3932  \let\glsifhyper\@firstoftwo
3933  \else
3934  \let\glsifhyper\@secondoftwo
3935  \fi
3936  \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```
3937  \def\glscustomtext{%
3938  \mfirstucMakeUppercase{\glsentrylong{#2}#3}%
3939  }%
Call \@gls@link
3940  \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
3941 }%
```

Short plural:

3942 }

\acrlongpl

 ${\tt 3943 \ newrobustcmd*{\ acrlongpl}{\ 0 if star\ s@acrlongpl\ ns@acrlongpl}}$ 

# Define the starred form:

Defined the un-starred form. Need to determine if there is a final optional argument

Read in the final optional argument:

```
3951 \def\@acrlongpl#1#2[#3]{%
3952 \glsdoifexists{#2}%
```

```
3953
     {%
       \edef\@glo@type{\glsentrytype{#2}}%
3954
       \def\glslabel{#2}%
3955
       \let\glsifplural\@firstoftwo
3956
       \let\glscapscase\@firstofthree
3957
       \let\glsinsert\@empty
3958
 Determine whether starred or unstarred version was used:
       \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
3959
       \setkeys{glslink}{hyper=true,#1}%
3960
       \ifKV@glslink@hyper
3961
         \let\glsifhyper\@firstoftwo
3962
       \else
3963
3964
         \let\glsifhyper\@secondoftwo
       \fi
3965
       \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
3966
 Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont
 only designed for short form).
       \def\glscustomtext{%
3967
         \glsentrylongpl{#2}#3%
3968
3969
 Call \@gls@link
       \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
3970
3971
     }%
3972}
3973 \newrobustcmd*{\Acrlongpl}{\@ifstar\s@Acrlongpl\ns@Acrlongpl}
 Define the starred form:
3974 \newcommand*{\s@Acrlongpl}[2][]{%
     \new@ifnextchar[{\@Acrlongpl{hyper=false#1}{#2}}%
3975
                      {\@Acrlongpl{hyper=false,#1}{#2}[]}%
3976
 Defined the un-starred form. Need to determine if there is a final optional ar-
 gument
3978 \newcommand*{\ns@Acrlongpl}[2][]{%
3979
     3980 }
 Read in the final optional argument:
3981 \def\@Acrlongpl#1#2[#3]{%
     \glsdoifexists{#2}%
3982
3983
     {%
```

\Acrlongpl

3984

\edef\@glo@type{\glsentrytype{#2}}%

```
3985
       \def\glslabel{#2}%
       \let\glsifplural\@firstoftwo
3986
       \let\glscapscase\@secondofthree
3987
       \let\glsinsert\@empty
3988
 Determine whether starred or unstarred version was used:
       \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
       \setkeys{glslink}{hyper=true,#1}%
3990
       \ifKV@glslink@hyper
3991
         \let\glsifhyper\@firstoftwo
3992
3993
         \let\glsifhyper\@secondoftwo
3994
       \fi
3995
       \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
3996
 Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont
 only designed for short form).
       \def\glscustomtext{%
3997
3998
         \Glsentrylongpl{#2}#3%
3999
       }%
 Call \@gls@link
       \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
     }%
4001
4002 }
4003 \newrobustcmd*{\ACRlongpl}{\@ifstar\s@ACRlongpl\ns@ACRlongpl}
 Define the starred form:
4004 \newcommand*{\s@ACRlongpl}[2][]{%
     \new@ifnextchar[{\@ACRlongpl{hyper=false,#1}{#2}}%
                     {\@ACRlongpl{hyper=false,#1}{#2}[]}%
4006
4007 }
 Defined the un-starred form. Need to determine if there is a final optional ar-
4008 \newcommand*{\ns@ACRlongpl}[2][]{%
4009
     4010}
 Read in the final optional argument:
4011 \def\@ACRlongpl#1#2[#3] {%
     \glsdoifexists{#2}%
     {%
4013
4014
       \edef\@glo@type{\glsentrytype{#2}}%
       \def\glslabel{#2}%
4015
4016
       \let\glsifplural\@firstoftwo
4017
       \let\glscapscase\@thirdofthree
```

\ACRlongpl

4018

\let\glsinsert\@empty

Determine whether starred or unstarred version was used:

```
\let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
4019
       \setkeys{glslink}{hyper=true,#1}%
4020
       \ifKV@glslink@hyper
4021
          \let\glsifhyper\@firstoftwo
4022
       \else
4023
          \let\glsifhyper\@secondoftwo
4024
4025
       \fi
       \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```
\def\glscustomtext{%
4028
          \mfirstucMakeUppercase{\glsentrylongpl{#2}#3}%
4029
 Call \@gls@link
       \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
4030
4031
4032 }
```

# 1.10.2 Displaying entry details without adding information to the glossary

These commands merely display entry information without adding entries in the associated file or having hyperlinks.

\@gls@entry@field Generic version.

```
\cline{gls@entry@field}{\langle label\rangle}{\langle field\rangle}
```

```
4033 \newcommand*{\@gls@entry@field}[2]{%
4034 \csname glo@\glsdetoklabel{#1}@#2\endcsname
4035 }
```

\glsletentryfield

```
\glsletentryfield{\langle cs\rangle}{\langle label\rangle}{\langle field\rangle}
```

```
4036 \newcommand*{\glsletentryfield}[3]{%
     \letcs{#1}{glo@\glsdetoklabel{#2}@#3}%
4038 }
```

\@Gls@entry@field Generic first letter uppercase version.

```
\@Gls@entry@field{\\label\}}{\field\}
```

```
4039 \newcommand*{\@Gls@entry@field}[2]{%
4040 \letcs\@glo@text{glo@\glsdetoklabel{#1}@#2}%
```

```
4041 \makefirstuc{\@glo@text}% 4042}
```

Get the entry name (as specified by the name key when the entry was defined). The argument is the label associated with the entry. Note that unless you used name=false in the sanitize package option you may get unexpected results if the name key contains any commands.

### \glsentryname

 $4043 \end{\{\glsentryname\}} [1] {\gls@entry@field{\#1}{name}} \\$ 

#### \Glsentryname

```
4044 \newrobustcmd*{\Glsentryname}[1]{% 4045 \@Gls@entry@field{#1}{name}% 4046}
```

Get the entry description (as specified by the description when the entry was defined). The argument is the label associated with the entry. Note that unless you used description=false in the sanitize package option you may get unexpected results if the description key contained any commands.

#### \glsentrydesc

 $4047 \end{*{\glsentrydesc}[1]{\gls@entry@field{\#1}{desc}}}$ 

### \Glsentrydesc

```
4048 \newrobustcmd*{\Glsentrydesc}[1]{%
4049 \@Gls@entry@field{#1}{desc}%
4050}
```

#### Plural form:

## \glsentrydescplural

```
4051 \newcommand*{\glsentrydescplural}[1]{% 4052 \QglsQentryQfield{#1}{descplural}% 4053}
```

### \Glsentrydescplural

```
4054 \newrobustcmd*{\Glsentrydescplural}[1]{%
4055 \@Gls@entry@field{#1}{descplural}%
4056}
```

Get the entry text, as specified by the text key when the entry was defined. The argument is the label associated with the entry:

## \glsentrytext

```
4057 \newcommand*{\glsentrytext}[1]{\@gls@entry@field{#1}{text}}
```

```
\Glsentrytext
                    4058 \newrobustcmd*{\Glsentrytext}[1]{%
                         \@Gls@entry@field{#1}{text}%
                    4060 }
                        Get the plural form:
   \glsentryplural
                     4061 \newcommand*{\glsentryplural}[1]{%
                    4062 \@gls@entry@field{#1}{plural}%
                    4063 }
   \Glsentryplural
                     4064 \newrobustcmd*{\Glsentryplural}[1]{%
                    4065 \@Gls@entry@field{#1}{plural}%
                    4066 }
                        Get the symbol associated with this entry. The argument is the label associ-
                      ated with the entry.
   \glsentrysymbol
                    4067 \newcommand*{\glsentrysymbol}[1]{%
                          \@gls@entry@field{#1}{symbol}%
                    4069 }
   \Glsentrysymbol
                    4070 \newrobustcmd*{\Glsentrysymbol}[1]{%
                          \@Gls@entry@field{#1}{symbol}%
                    4072 }
                      Plural form:
lsentrysymbolplural
                     4073 \verb|\newcommand*{\glsentrysymbolplural}[1]{|}
                    4074 \@gls@entry@field{#1}{symbolplural}%
                    4075 }
lsentrysymbolplural
                     4076 \newrobustcmd*{\Glsentrysymbolplural}[1]{%
                    4077 \@Gls@entry@field{#1}{symbolplural}%
                    4078}
                        Get the entry text to be used when the entry is first used in the document (as
                      specified by the first key when the entry was defined).
     \glsentryfirst
                     4079 \newcommand*{\glsentryfirst}[1]{%
                    4080 \@gls@entry@field{#1}{first}%
                     4081 }
```

```
\Glsentryfirst
                     4082 \newrobustcmd*{\Glsentryfirst}[1]{%
                          \@Gls@entry@field{#1}{first}%
                     4084 }
                         Get the plural form (as specified by the firstplural key when the entry was
                      defined).
glsentryfirstplural
                     4085 \newcommand*{\glsentryfirstplural}[1]{%
                           \@gls@entry@field{#1}{firstpl}%
                     4087 }
{	t Glsentryfirstplural}
                     4088 \newrobustcmd*{\Glsentryfirstplural}[1]{%
                          \@Gls@entry@field{#1}{firstpl}%
                     4090 }
                         Display the glossary type with which this entry is associated (as specified by
                      the type key used when the entry was defined)
      \glsentrytype
                     4091 \newcommand*{\glsentrytype}[1]{\@gls@entry@field{#1}{type}}
                         Display the sort text used for this entry. Note that the sort key is sanitize, so
                      unexpected results may occur if the sort key contained commands.
      \glsentrysort
                     4092 \newcommand*{\glsentrysort}[1]{%
                           \@gls@entry@field{#1}{sort}%
                     4094 }
     \glsentryuseri
                      Get the first user key (as specified by the user1 when the entry was defined).
                      The argument is the label associated with the entry.
                     4095 \newcommand*{\glsentryuseri}[1]{%
                           \@gls@entry@field{#1}{useri}%
                     4096
                     4097}
     \Glsentryuseri
                     4098 \newrobustcmd*{\Glsentryuseri}[1]{%
                           \@Gls@entry@field{#1}{useri}%
                     4099
                     4100}
```

\glsentryuserii Get the second user key (as specified by the user2 when the entry was defined).

The argument is the label associated with the entry.

4101 \newcommand\*{\glsentryuserii}[1]{%
4102 \@gls@entry@field{#1}{userii}%

4103 }

```
\Glsentryuserii
                 4104 \newrobustcmd*{\Glsentryuserii}[1]{%
                       \@Gls@entry@field{#1}{userii}%
                 4106}
\glsentryuseriii Get the third user key (as specified by the user3 when the entry was defined).
                   The argument is the label associated with the entry.
                 4107 \newcommand*{\glsentryuseriii}[1]{%
                 4108 \@gls@entry@field{#1}{useriii}%
                 4109 }
\Glsentryuseriii
                 4110 \newrobustcmd*{\Glsentryuseriii}[1]{%
                 4111 \@Gls@entry@field{#1}{useriii}%
                 4112}
\glsentryuseriv Get the fourth user key (as specified by the user4 when the entry was defined).
                   The argument is the label associated with the entry.
                 4113 \newcommand*{\glsentryuseriv}[1]{%
                 4114 \@gls@entry@field{#1}{useriv}%
                 4115}
\Glsentryuseriv
                 4116 \newrobustcmd*{\Glsentryuseriv}[1]{%
                 4117 \@Gls@entry@field{#1}{useriv}%
                 4118 }
  \glsentryuserv Get the fifth user key (as specified by the user5 when the entry was defined).
                   The argument is the label associated with the entry.
                 4119 \newcommand*{\glsentryuserv}[1]{%
                 4120 \@gls@entry@field{#1}{userv}%
                 4121 }
  \Glsentryuserv
                 4122 \newrobustcmd*{\Glsentryuserv}[1]{%
                 4123 \@Gls@entry@field{#1}{userv}%
                 4124 }
 \glsentryuservi Get the sixth user key (as specified by the user6 when the entry was defined).
                   The argument is the label associated with the entry.
                 4125 \newcommand*{\glsentryuservi}[1]{%
                      \@gls@entry@field{#1}{uservi}%
                 4126
                 4127 }
\Glsentryuservi
                 4128 \newrobustcmd*{\Glsentryuservi}[1]{%
                 4129 \@Gls@entry@field{#1}{uservi}%
```

4130 }

```
Get the short key (as specified by the short the entry was defined). The argu-
  \glsentryshort
                   ment is the label associated with the entry.
                 4131 \newcommand*{\glsentryshort}[1]{\@gls@entry@field{#1}{short}}
  \Glsentryshort
                 4132 \newrobustcmd*{\Glsentryshort}[1]{%
                 4133 \@Gls@entry@field{#1}{short}%
                 4134 }
\glsentryshortpl Get the short plural key (as specified by the shortplural the entry was defined).
                   The argument is the label associated with the entry.
                 4135 \newcommand*{\glsentryshortpl}[1]{\@gls@entry@field{#1}{shortpl}}
\Glsentryshortpl
                 4136 \newrobustcmd*{\Glsentryshortpl}[1]{%
                 4137 \@Gls@entry@field{#1}{shortpl}%
                 4138 }
   \glsentrylong Get the long key (as specified by the long the entry was defined). The argument
                   is the label associated with the entry.
                 4139 \newcommand*{\glsentrylong}[1]{\@gls@entry@field{#1}{long}}
   \Glsentrylong
                 4140 \newrobustcmd*{\Glsentrylong}[1]{%
                       \@Gls@entry@field{#1}{long}%
                 4141
                 4142}
                   Get the long plural key (as specified by the longplural the entry was defined).
 \glsentrylongpl
                   The argument is the label associated with the entry.
                 4143 \newcommand*{\glsentrylongpl}[1]{\@gls@entry@field{#1}{longpl}}
 \Glsentrylongpl
                 4144 \newrobustcmd*{\Glsentrylongpl}[1]{%
                 4145 \@Gls@entry@field{#1}{longpl}%
                 4146 }
                     Short cut macros to access full form:
   \glsentryfull
                 4147 \newcommand*{\glsentryfull}[1]{%
                       \acrfullformat{\glsentrylong{#1}}{\acronymfont{\glsentryshort{#1}}}%
                 4149}
   \Glsentryfull
                 4150 \newrobustcmd*{\Glsentryfull}[1]{%
                       \acrfullformat{\Glsentrylong{#1}}{\acronymfont{\glsentryshort{#1}}}%
                 4152}
```

```
\glsentryfullpl
                    4153 \newcommand*{\glsentryfullpl}[1]{%
                          \acrfullformat{\glsentrylongpl{#1}}{\acronymfont{\glsentryshortpl{#1}}}}
                    4155 }
   \Glsentryfullpl
                    4156 \newrobustcmd*{\Glsentryfullpl}[1]{%
                          \acrfullformat{\Glsentrylongpl{#1}}{\acronymfont{\glsentryshortpl{#1}}}}
                    4158}
\glsentrynumberlist Displays the number list as is.
                    4159 \newcommand*{\glsentrynumberlist}[1]{%
                          \glsdoifexists{#1}%
                    4161
                          {%
                            \@gls@entry@field{#1}{numberlist}%
                    4162
                    4163
                          }%
                    4164 }
lsdisplaynumberlist Formats the number list for the given entry label. Doesn't work with hyperref.
                    4165 \@ifpackageloaded{hyperref} {%
                          \newcommand*{\glsdisplaynumberlist}[1]{%
                    4167
                            \GlossariesWarning
                            {%
                    4168
                    4169
                              \string\glsdisplaynumberlist\space
                              doesn't work with hyperref. ^ JUsing
                    4170
                              \string\glsentrynumberlist\space instead%
                    4171
                            }%
                    4172
                    4173
                            \glsentrynumberlist{#1}%
                    4174
                          }%
                    4175 }%
                    4176 {%
                          \newcommand*{\glsdisplaynumberlist}[1]{%
                            \glsdoifexists{#1}%
                    4178
                            {%
                    4179
                              \bgroup
                    4180
                                  \edef\@glo@label{\glsdetoklabel{#1}}%
                    4181
                                  \let\@org@glsnumberformat\glsnumberformat
                    4182
                                  \def\glsnumberformat##1{##1}%
                    4183
                    4184
                                  \protected@edef\the@numberlist{%
                                    \csname glo@\@glo@label @numberlist\endcsname}%
                    4185
                                  \def\@gls@numlist@sep{}%
                    4186
                    4187
                                 \def\@gls@numlist@nextsep{}%
                                 \def\@gls@numlist@lastsep{}%
                    4188
                                 \def\@gls@thislist{}%
                    4189
                                 \def\@gls@donext@def{}%
                    4190
                    4191
                                  \renewcommand\do[1]{%
                                    \protected@edef\@gls@thislist{%
                    4192
```

\@gls@thislist

4193

```
\noexpand\@gls@numlist@sep
                    4194
                    4195
                                     ##1%
                                   }%
                    4196
                                   \let\@gls@numlist@sep\@gls@numlist@nextsep
                    4197
                                   \def\@gls@numlist@nextsep{\glsnumlistsep}%
                    4198
                                   \@gls@donext@def
                    4199
                                   \def\@gls@donext@def{%
                    4200
                                      \def\@gls@numlist@lastsep{\glsnumlistlastsep}%
                    4201
                                   }%
                    4202
                                 }%
                    4203
                                 \expandafter \glsnumlistparser \expandafter{\the@numberlist}%
                    4204
                    4205
                                 \let\@gls@numlist@sep\@gls@numlist@lastsep
                                 \@gls@thislist
                    4206
                              \egroup
                    4207
                           }%
                    4208
                         }
                    4209
                    4210}
    \glsnumlistsep
                    4211 \newcommand*{\glsnumlistsep}{, }
\glsnumlistlastsep
                    4212 \newcommand*{\glsnumlistlastsep}{ \& }
```

\glshyperlink

Provide a hyperlink to a glossary entry without adding information to the glossary file. The entry needs to be added using a command like \glslink or \glsadd to ensure that the target is defined. The first (optional) argument specifies the link text. The entry name is used by default. The second argument is the entry label.

```
4213 \newcommand*{\glshyperlink}[2][\glsentrytext{\@glo@label}]{%
4214 \def\@glo@label{#2}%
4215 \@glslink{\glolinkprefix\glsdetoklabel{#2}}{#1}}
```

## 1.11 Adding an entry to the glossary without generating text

```
The following keys are provided for \glsadd and \glsaddall:
4216 \define@key{glossadd}{counter}{\def\@gls@counter{#1}}

4217 \define@key{glossadd}{format}{\def\@glsnumberformat{#1}}

This key is only used by \glsaddall:
4218 \define@key{glossadd}{types}{\def\@glo@type{#1}}
```

```
\glsadd[\langle options \rangle] \{\langle label \rangle\}
```

Add a term to the glossary without generating any link text. The optional argument indicates which counter to use, and how to format it (using a key-value

list) the second argument is the entry label. Note that *(options)* only has two keys: counter and format (the types key will be ignored).

## \glsadd

```
4219 \newrobustcmd*{\glsadd}[2][]{%
     \glsdoifexists{#2}%
4220
     {%
4221
        \def\@glsnumberformat{glsnumberformat}%
4222
        \edef\@gls@counter{\csname glo@\glsdetoklabel{#2}@counter\endcsname}%
4223
        \setkeys{glossadd}{#1}%
4224
 Store the entry's counter in \theglsentrycounter
        \@gls@saveentrycounter
4225
4226
        \@do@wrglossary{#2}%
4227
     }%
4228 }
```

# \glsaddall[\langle option list \rangle]

Add all terms defined for the listed glossaries (without displaying any text). If types key is omitted, apply to all glossary types.

#### \glsaddall

```
4229\newrobustcmd*{\glsaddall}[1][]{%
4230 \edef\@glo@type{\@glo@types}%
4231 \setkeys{glossadd}{#1}%
4232 \forallglsentries[\@glo@type]{\@glo@entry}{%
4233 \glsadd[#1]{\@glo@entry}%
4234 }%
4235}
```

### \glsaddallunused

## $\glsandallunused[\langle glossary type \rangle]$

Add all used terms defined for the listed glossaries (without displaying any text). If optional argument is omitted, apply to all glossary types. This should typically go at the end of the document.

```
4236 \newrobustcmd*{\glsaddallunused}[1][\@glo@types]{%
4237 \forallglsentries[#1]{\@glo@entry}%
4238 {%
4239 \ifglsused{\@glo@entry}{}{\glsadd[format=@gobble]{\@glo@entry}}%
4240 }%
4241}
```

# 1.12 Creating associated files

The \writeist command creates the associated customized .ist makeindex style file. While defining this command, some characters have their catcodes

temporarily changed to ensure they get written to the .ist file correctly. The makeindex actual character (usually @) is redefined to be a ?, to allow internal commands to be written to the glossary file output file.

The special characters are stored in \@gls@actualchar, \@gls@encapchar, \@glsl@levelchar and \@gls@quotechar to make them easier to use later, but don't change these values, because the characters are encoded in the command definitions that are used to escape the special characters (which means that the user no longer needs to worry about makeindex special characters).

The symbols and numbers label for group headings are hardwired into the .ist file as glssymbols and glsnumbers, the group titles can be translated (so that \glssymbolsgroupname replaces glssymbols and \glsnumbersgroupname replaces glsnumbers) using the command \glsgetgrouptitle which is defined in . This is done to prevent any problem characters in \glssymbolsgroupname and \glsnumbersgroupname from breaking hyperlinks.

\glsclosebrace Define \glsclosebrace to make it easier to write an opening brace to a file.

4243 \edef\glsclosebrace{\expandafter\@gobble\string\}}

\glsquote Define command that makes it easier to write quote marks to a file in the event that the double quote character has been made active.

```
4244 \edef\glsquote#1{\string"#1\string"}
```

\@glsfirstletter Define the first letter to come after the digits 0,...,9. Only required for xindy.

```
4245\ifglsxindy
4246 \newcommand*{\@glsfirstletter}{A}
4247\fi
```

stLetterAfterDigits Sets the first letter to come after the digits 0,...,9.

```
4248\ifglsxindy
4249 \newcommand*{\GlsSetXdyFirstLetterAfterDigits}[1]{%
4250 \renewcommand*{\@glsfirstletter}{#1}}
4251\else
4252 \newcommand*{\GlsSetXdyFirstLetterAfterDigits}[1]{%
4253 \glsnoxindywarning\GlsSetXdyFirstLetterAfterDigits}
4254\fi
```

\@glsminrange Define the minimum number of successive location references to merge into a range.

```
4255 \newcommand*{\@glsminrange}{2}
```

etXdyMinRangeLength

Set the minimum range length. The value must either be none or a positive integer. The glossaries package doesn't check if the argument is valid, that is left to xindy.

```
4256\ifglsxindy
                \newcommand*{\GlsSetXdyMinRangeLength}[1]{%
                  \renewcommand*{\@glsminrange}{#1}}
          4258
          4259\else
                \newcommand*{\GlsSetXdyMinRangeLength}[1]{%
                  \glsnoxindywarning\GlsSetXdyMinRangeLength}
          4261
          4262\fi
\writeist
          4263\ifglsxindy
            Code to use if xindy is required.
                \def\writeist{%
          4264
            Define write register if not already defined
                  \ifundef{\glswrite}{\newwrite\glswrite}{}%
            Update attributes list
                  \@gls@addpredefinedattributes
            Open the file.
                  \openout\glswrite=\istfilename
          4267
            Write header comment at the start of the file
                  \write\glswrite{;; xindy style file created by the glossaries
          4268
          4269
                       package}%
                  \write\glswrite{;; for document '\jobname' on
          4270
          4271
                      \the\year-\the\month-\the\day}%
            Specify the required styles
                  \write\glswrite{^^J; required styles^^J}
          4272
                  \@for\@xdystyle:=\@xdyrequiredstyles\do{%
          4273
                        \ifx\@xdystyle\@empty
          4274
                        \else
          4275
                          \protected@write\glswrite{}{(require
          4276
                            \string"\@xdystyle.xdy\string")}%
          4277
                        \fi
          4278
                  }%
          4279
            List the allowed attributes (possible values used by the format key)
                  \write\glswrite{^^J%
          4280
                      ; list of allowed attributes (number formats)^^J}%
          4281
          4282
                  \write\glswrite{(define-attributes ((\@xdyattributes)))}%
            Define any additional alphabets
                  \write\glswrite{^^J; user defined alphabets^^J}%
          4283
                  \write\glswrite{\@xdyuseralphabets}%
          4284
            Define location classes.
                  \write\glswrite{^^J; location class definitions^^J}%
          4285
            As from version 3.0, locations are now specified as \{\langle Hprefix \rangle\} \{\langle number \rangle\}, so
            need to add all possible combinations of location types.
```

\@for\@gls@classI:=\@gls@xdy@locationlist\do{%

4286

Case were  $\langle Hprefix \rangle$  is empty:

```
\protected@write\glswrite{}{(define-location-class
4287
            \string"\@gls@classI\string"^^J\space\space\space
4288
4289
              :sep "{}{"
4290
              \csname @gls@xdy@Lclass@\@gls@classI\endcsname\space
4291
4292
4293
            )
            ^^J\space\space\space
4294
            :min-range-length \@glsminrange^^J%
4295
4296
          }%
4297
```

Nested iteration over all classes:

```
4298
          {%
            \@for\@gls@classII:=\@gls@xdy@locationlist\do{%
4299
               \protected@write\glswrite{}{(define-location-class
4300
                 \string"\@gls@classII-\@gls@classI\string"
4301
                   ^^J\space\space\space
4302
                 (
4303
                   :sep "{"
4304
                   \csname @gls@xdy@Lclass@\@gls@classII\endcsname\space
4305
                   :sep "}{"
4306
                   \csname @gls@xdy@Lclass@\@gls@classI\endcsname\space
4307
                   :sep "}"
4308
                 )
4309
                 ^^J\space\space\space
4310
                 :min-range-length \@glsminrange^^J%
4311
4312
              }%
4313
            }%
4314
          }%
4315
        }%
4316
```

User defined location classes (needs checking for new location format).

```
4317 \write\glswrite{^^J; user defined location classes}%
4318 \write\glswrite{\@xdyuserlocationdefs}%
```

Cross-reference class. (The unverified option is used as the cross-references are supplied using the list of labels along with the optional argument for \glsseeformat which xindy won't recognise.)

```
4319 \write\glswrite{^^J; define cross-reference class^^J}%
4320 \write\glswrite{(define-crossref-class \string"see\string"
4321 :unverified )}%
```

Define how cross-references should be displayed. This adds an empty set of braces after the cross-referencing information allowing for the final argument of \glsseeformat which gets ignored. (When using makeindex this final argument contains the location information which is not required.)

```
4322 \write\glswrite{(markup-crossref-list
```

```
4323
             :class \string"see\string"^^J\space\space\space
             :open \string"\string\glsseeformat\string"
4324
4325
             :close \string"{}\string")}%
 List the order to sort the classes.
        \write\glswrite{^^J; define the order of the location classes}%
4326
        \write\glswrite{(define-location-class-order
4327
4328
             (\@xdvlocationclassorder))}%
 Specify what to write to the start and end of the glossary file.
        \write\glswrite{^^J; define the glossary markup^^J}%
4329
        \write\glswrite{(markup-index^^J\space\space\space
4330
4331
            :open \string"\string
            \glossarysection[\string\glossarytoctitle]{\string
4332
            \glossarytitle}\string\glossarypreamble}%
4333
 Add all the xindy-only macro definitions (needed to prevent errors in the event
 that the user changes from xindy to makeindex)
        \@for\@this@ctr:=\@xdycounters\do{%
4334
4335
          {%
            \@for\@this@attr:=\@xdyattributelist\do{%
4336
               \protected@write\glswrite{}{\string\providecommand*%
4337
                  \expandafter\string
4338
                  \csname glsX\@this@ctr X\@this@attr\endcsname[2]%
4339
                  {%
4340
                     \string\setentrycounter
4341
                       [\expandafter\@gobble\string\#1]{\@this@ctr}%
4342
4343
                     \expandafter\string
                     \csname\@this@attr\endcsname
4344
                       {\expandafter\@gobble\string\#2}%
4345
4346
                 }%
               }%
4347
            }%
4348
         }%
4349
4350
       }%
 Add the end part of the open tag and the rest of the markup-index information:
        \write\glswrite{%
4351
            \string\begin
4352
            {theglossary}\string\glossaryheader\string~n\string" ^~J\space
4353
            \space\space:close \string"\expandafter\@gobble
4354
              \string\%\string~n\string
4355
              \verb|\dotsary| \verb|\string| glossary postamble| \\
4356
              \string~n\string" ^^J\space\space\space
4357
            :tree)}%
4358
```

Specify what to put between letter groups

```
4359 \write\glswrite{(markup-letter-group-list
4360 :sep \string"\string\glsgroupskip\string"n\string")}%
```

```
Specify what to put between entries
4361
       \write\glswrite{(markup-indexentry
            :open \string\\relax \string\\glsresetentrylist
4362
4363
               \string~n\string")}%
 Specify how to format entries
       \write\glswrite{(markup-locclass-list :open
4364
           \string"\glsopenbrace\string\glossaryentrynumbers
4365
             \glsopenbrace\string\relax\space \string"^^J\space\space\space
4366
4367
           :sep \string", \string"
           :close \string"\glsclosebrace\glsclosebrace\string")}%
4368
 Specify how to separate location numbers
       \write\glswrite{(markup-locref-list
4369
           :sep \string"\string\delimN\space\string")}%
4370
 Specify how to indicate location ranges
       \write\glswrite{(markup-range
4371
           :sep \string"\string\delimR\space\string")}%
4372
 Specify 2-page and 3-page suffixes, if defined. First, the values must be sani-
 tized to write them explicity.
       \@onelevel@sanitize\gls@suffixF
4373
       \@onelevel@sanitize\gls@suffixFF
4374
       \ifx\gls@suffixF\@empty
4375
4376
4377
          \write\glswrite{(markup-range
4378
            :close "\gls@suffixF" :length 1 :ignore-end)}%
4379
       \fi
       \ifx\gls@suffixFF\@empty
4380
       \else
4381
          \write\glswrite{(markup-range
4382
4383
            :close "\gls@suffixFF" :length 2 :ignore-end)}%
4384
 Specify how to format locations.
       \write\glswrite{^^J; define format to use for locations^^J}%
4385
       \write\glswrite{\@xdylocref}%
4386
 Specify how to separate letter groups.
       \write\glswrite{^^J; define letter group list format^^J}%
4387
       \write\glswrite{(markup-letter-group-list
4388
           :sep \string\glsgroupskip\string~n\string")}%
4389
 Define letter group headings.
       \write\glswrite{^^J; letter group headings^^J}%
4390
```

:open-head \string"\string\glsgroupheading

\glsopenbrace\string"^^J\space\space\space

:close-head \string"\glsclosebrace\string")}%

\write\glswrite{(markup-letter-group

4391

4392

4393

4394

```
Define additional letter groups.
               \write\glswrite{^^J; additional letter groups^^J}%
               \write\glswrite{\@xdylettergroups}%
4396
   Define additional sort rules
               \write\glswrite{^^J; additional sort rules^^J}
4397
               \write\glswrite{\@xdysortrules}%
4398
   Close the style file
               \closeout\glswrite
   Suppress any further calls.
4400
               \let\writeist\relax
4401
4402\else
   Code to use if makeindex is required.
           \edef\@gls@actualchar{\string?}
4404
           \edef\@gls@encapchar{\string|}
           \edef\@gls@levelchar{\string!}
4405
           \edef\@gls@quotechar{\string"}
4406
           \def\writeist{\relax
4407
             \ifundef{\glswrite}{\newwrite\glswrite}{\relax
4408
             \openout\glswrite=\istfilename
4409
               \write\glswrite{\expandafter\@gobble\string\% makeindex style file
4410
                   created by the glossaries package}
4411
               \write\glswrite{\expandafter\@gobble\string\% for document
4412
                   '\jobname' on \the\year-\the\month-\the\day}
4413
4414
               \write\glswrite{actual '\@gls@actualchar'}
               \write\glswrite{encap '\@gls@encapchar'}
4415
               \write\glswrite{level '\@gls@levelchar'}
4416
               \write\glswrite{quote '\@gls@quotechar'}
4417
               \write\glswrite{keyword \string"\string\\glossaryentry\string"}
4418
4419
               \write\glswrite{preamble \string"\string\\glossarysection[\string
                   \\glossarytoctitle]{\string\\glossarytitle}\string
4420
4421
                   \\glossarypreamble\string\n\string\\begin{theglossary}\string
                   \\glossaryheader\string\n\string"}
4422
               \write\glswrite{postamble \string\\string\\string\n\string
4423
                   \verb|\d{theglossary} \rangle | string | glossary postamble | string | n | defined | n | defin
4424
                   \string"}
4425
               \write\glswrite{group_skip \string"\string\\glsgroupskip\string\n
4426
                   \string"}
4427
               \write\glswrite{item_0 \string"\string\%\string\n\string"}
4428
               \write\glswrite{item_1 \string"\string\%\string\n\string"}
4429
               \write\glswrite{item_2 \string"\string\%\string\n\string"}
4430
               \write\glswrite{item_01 \string"\string\%\string\n\string"}
4431
               \write\glswrite{item_x1
4432
                   \string\\relax \string\\glsresetentrylist\string\n
4433
4434
                   \string"}
               \write\glswrite{item_12 \string\%\string\n\string"}
4435
               \write\glswrite{item_x2
4436
```

```
\string"\string\\relax \string\\glsresetentrylist\string\n
4437
4438
         \string"}
       \write\glswrite{delim_0 \string"\string\{\string}
4439
         \\glossaryentrynumbers\string\{\string\\relax \string"}
4440
       \write\glswrite{delim_1 \string"\string\{\string}
4441
         \\glossaryentrynumbers\string\{\string\\relax \string"}
4442
       \write\glswrite{delim_2 \string"\string\{\string}
4443
         \\glossaryentrynumbers\string\{\string\\relax \string"}
4444
       \write\glswrite{delim_t \string"\string\}\string\}\string"}
4445
       \write\glswrite{delim_n \string"\string\\delimN \string"}
4446
       \write\glswrite{delim_r \string"\string\\delimR \string"}
4447
       \write\glswrite{headings_flag 1}
4448
       \write\glswrite{heading_prefix
4449
          4450
4451
       \write\glswrite{heading_suffix
4452
          \string"\string\\relax
          \string\\glsresetentrylist \string"}
4453
       \write\glswrite{symhead_positive \string"glssymbols\string"}
4454
       \write\glswrite{numhead_positive \string"glsnumbers\string"}
4455
       \write\glswrite{page_compositor \string"\glscompositor\string"}
4456
       \@gls@escbsdq\gls@suffixF
4457
       \@gls@escbsdq\gls@suffixFF
4458
4459
       \ifx\gls@suffixF\@empty
       \else
4460
         \write\glswrite{suffix_2p \string"\gls@suffixF\string"}
4461
4462
       \fi
       \ifx\gls@suffixFF\@empty
4463
4464
         \write\glswrite{suffix_3p \string"\gls@suffixFF\string"}
4465
4466
       \fi
4467
       \closeout\glswrite
       \let\writeist\relax
4468
     }
4469
4470\fi
```

The command \noist will suppress the creation of the .ist file. Obviously you need to use this command before \writeist to have any effect.

```
\noist
```

```
4471 \newcommand{\noist}{%
   Update attributes list
4472 \@gls@addpredefinedattributes
4473 \let\writeist\relax
4474 }
```

\@makeglossary is an internal command that takes an argument indicating the glossary type. This command will create the glossary file required by makeindex for the given glossary type, using the extension supplied by

the \( out-ext \) parameter used in \newglossary (and it will also activate the \glossary command, and create the customized .ist makeindex style file).

Note that you can't use \@makeglossary for only some of the defined glossaries. You either need to have a \makeglossary for all glossaries or none (otherwise you will end up with a situation where TeX is trying to write to a non-existant file). The relevant glossary must be defined prior to using \@makeglossary.

#### \@makeglossary

```
4475 \newcommand*{\@makeglossary}[1]{%
     \ifglossaryexists{#1}%
4477
     {%
```

Only create a new write if savewrites=false otherwise create a token to collect the information.

```
\ifglssavewrites
4478
          \expandafter\newtoks\csname glo@#1@filetok\endcsname
4479
        \else
4480
4481
          \expandafter\newwrite\csname glo@#1@file\endcsname
          \expandafter\@glsopenfile\csname glo@#1@file\endcsname{#1}%
4482
4483
       \@gls@renewglossary
4484
       \writeist
4485
     }%
4486
     {%
4487
4488
       \PackageError{glossaries}%
        {Glossary type '#1' not defined}%
4489
4490
       {New glossaries must be defined before using \string\makeglossary}%
     }%
4491
4492 }
```

\@glsopenfile Open write file associated with the given glossary.

```
4493 \newcommand*{\@glsopenfile}[2]{%
                                                              \verb|\distance| \distance| \verb|\distance| \distance| \dista
                                                              \PackageInfo{glossaries}{Writing glossary file
 4496
                                                                                                    \jobname.\csname @glotype@#2@out\endcsname}%
4497 }
```

```
4498 \newcommand*{\@warn@nomakeglossaries}{}
```

Only use this if warning if \printglossary has been used without \makeglossaries 4499 \newcommand\*{\warn@nomakeglossaries}{\@warn@nomakeglossaries}

\makeglossaries will use \@makeglossary for each glossary type that has been defined. New glossaries need to be defined before using \makeglossary, so have \makeglossaries redefine \newglossary to prevent it being used afterwards.

```
4500 \newcommand*{\makeglossaries}{%
 Define the write used for style file also used for all other output files if
 savewrites=true.
     \ifundef{\glswrite}{\newwrite\glswrite}{}%
 If the user removes the glossary package from their document, ensure the next
 run doesn't throw a load of undefined control sequence errors when the aux file
 is parsed.
     \protected@write\@auxout{}{\string\providecommand\string\@glsorder[1]{}}
4502
     \protected@write\@auxout{}{\string\providecommand\string\@istfilename[1]{}}
 Write the name of the style file to the aux file (needed by makeglossaries)
     \protected@write\@auxout{}{\string\@istfilename{\istfilename}}%
4504
     \protected@write\@auxout{}{\string\@glsorder{\glsorder}}
 Iterate through each glossary type and activate it.
     \@for\@glo@type:=\@glo@types\do{%
4506
       \ifthenelse{\equal{\@glo@type}{}}{}{}
4507
4508
       \@makeglossary{\@glo@type}}%
4509
 New glossaries must be created before \makeglossaries so disable \newglossary.
     \renewcommand*\newglossary[4][]{%
4510
     \PackageError{glossaries}{New glossaries
4511
4512
     must be created before \string\makeglossaries}{You need
     to move \string\makeglossaries\space after all your
4513
     \string\newglossary\space commands}}%
4514
 Any subsequence instances of this command should have no effect
     \let\@makeglossary\relax
4515
4516
     \let\makeglossary\relax
     \let\makeglossaries\relax
 Disable all commands that have no effect after \makeglossaries
     \@disable@onlypremakeg
 Allow see key:
     \let\gls@checkseeallowed\relax
 Suppress warning about no \makeglossaries
     \let\warn@nomakeglossaries\relax
4520
 Activate warning about missing \printglossary
     \def\warn@noprintglossary{%
4521
       \GlossariesWarningNoLine{No \string\printglossary\space
4522
          or \string\printglossaries\space
4523
          found. ^ J(Remove \string\makeglossaries\space if you don't want
4524
          any glossaries.) ^ JThis document will not have a glossary}%
4525
4526
     ጉ%
```

```
Declare list parser for \glsdisplaynumberlist
                    \ifglssavenumberlist
              4527
                      \edef\@gls@dodeflistparser{\noexpand\DeclareListParser
              4528
                         {\noexpand\glsnumlistparser}{\delimN}}%
              4529
              4530
                      \@gls@dodeflistparser
              4531
                Prevent user from also using \makenoidxglossaries
                    \let\makenoidxglossaries\@no@makeglossaries
                Prohibit sort key in printgloss family:
                    \renewcommand*{\@printgloss@setsort}{%
              4534
                      \let\@glo@assign@sortkey\@glo@no@assign@sortkey
                    }%
              4535
              4536 }
                Must occur in the preamble:
              4537 \@onlypreamble{\makeglossaries}
               The definition of \glswrite has now been moved to \makeglossaries so that
    \glswrite
                it's only defined if needed.
                  The \makeglossary command is redefined to be identical to \makeglossaries.
                (This is done to reinforce the message that you must either use \@makeglossary
                for all the glossaries or for none of them.)
\makeglossary
              4538 \let\makeglossary\makeglossaries
                  If \makeglossaries hasn't been used, issue a warning. Also issue a warning
                if neither \printglossaries nor \printglossary have been used.
              4539 \AtEndDocument{%
                    \warn@nomakeglossaries
              4541
                    \warn@noprintglossary
              4542 }
               Analogous to \makeglossaries this activates the commands needed for \printnoidxglossary
              4543 \newcommand*{\makenoidxglossaries}{%
                Redefine empty glossary warning:
                    \renewcommand{\@gls@noref@warn}[1]{%
              4544
                      \GlossariesWarning{Empty glossary for
              4545
                      \string\printnoidxglossary[type={##1}].
              4546
                      Rerun may be required (or you may have forgotten to use
              4547
```

```
commands like \string\gls).}%
4548
     }%
4549
```

Don't escape makeindex/xindy characters

\let\@gls@checkmkidxchars\@gobble

Write glossary information to aux instead of glossary files

\let\@@do@@wrglossary\gls@noidxglossary

```
Switch on group headings that use the character code:
     \let\@gls@getgrouptitle\@gls@noidx@getgrouptitle
 Allow see key:
     \let\gls@checkseeallowed\relax
4553
 Redefine cross-referencing macro:
     \renewcommand{\@do@seeglossary}[2]{%
        \edef\@gls@label{\glsdetoklabel{##1}}%
4555
        \protected@write\@auxout{}{%
4556
          \string\@gls@reference
4557
            {\csname glo@\@gls@label @type\endcsname}%
4558
            {\@gls@label}%
4559
            {%
4560
              \string\glsseeformat##2{}%
4561
            }%
4562
       }%
4563
     }%
4564
 If user removes the glossaries package from their document, ensure the next
 run doesn't throw a load of undefined control sequence errors when the aux
 file is parsed.
4565
     \AtBeginDocument
     {%
4566
        \write\@auxout{\string\providecommand\string\@gls@reference[3]{}}%
4567
     }%
4568
 Change warning about no glossares
     \def\warn@noprintglossary{%
4569
       \GlossariesWarningNoLine{No \string\printnoidxglossary\space
4570
          or \string\printnoidxglossaries ^^J
4571
4572
          found. (Remove \string\makenoidxglossaries\space if you
4573
          don't want any glossaries.) ^ JThis document will not have a glossary } %
4574
     }%
 Suppress warning about no \makeglossaries
     \let\warn@nomakeglossaries\relax
 Prevent user from also using \makeglossaries
     \let\makeglossaries\@no@makeglossaries
 Allow sort key in printgloss family:
     \renewcommand*{\@printgloss@setsort}{%
4577
        \let\@glo@assign@sortkey\@@glo@assign@sortkey
4578
 Initialise default sort order:
        \def\@glo@sorttype{\@glo@default@sorttype}%
4579
4580
     }%
```

\PackageError{glossaries}{Glossary entries must be

All entries must be defined in the preamble:

4582

\renewcommand\*\new@glossaryentry[2]{%

```
4583
        defined in the preamble ^ Jwhen you use
        \string\makenoidxglossaries}%
4584
       {Either move your definitions to the preamble or use
4585
         \string\makeglossaries}%
4586
     }%
4587
 Redefine \glsentrynumberlist
     \renewcommand*{\glsentrynumberlist}[1]{%
       \letcs{\@gls@loclist}{glo@\glsdetoklabel{##1}@loclist}%
4589
       \ifdef\@gls@loclist
4590
4591
       {%
          \glsnoidxloclist{\@gls@loclist}%
4592
       }%
4593
4594
4595
          \ifglsentryexists{##1}%
          {%
4596
            \GlossariesWarning{Missing location list for '##1'. Either
4597
              a rerun is required or you haven't referenced the entry.}%
4598
4599
         }%
          {%
4600
            \PackageError{glossaries}{Glossary entry '##1' has not been
4601
             defined.}{}%
4602
         }%
4603
       }%
4604
     }%
4605
 Redefine \glsdisplaynumberlist
     \renewcommand*{\glsdisplaynumberlist}[1]{%
       \letcs{\@gls@loclist}{glo@\glsdetoklabel{##1}@loclist}%
4607
4608
       \ifdef\@gls@loclist
4609
          \def\@gls@noidxloclist@sep{%
4610
            \def\@gls@noidxloclist@sep{%
4611
              \def\@gls@noidxloclist@sep{%
4612
4613
                \glsnumlistsep
              }%
4614
              \def\@gls@noidxloclist@finalsep{\glsnumlistlastsep}%
4615
           }%
4616
         }%
4617
          \def\@gls@noidxloclist@finalsep{}%
4618
4619
          \def\@gls@noidxloclist@prev{}%
          \forlistloop{\glsnoidxdisplayloclisthandler}{\@gls@loclist}%
4620
          \@gls@noidxloclist@finalsep
4621
          \@gls@noidxloclist@prev
4622
       }%
4623
4624
         ??\ifglsentryexists{##1}%
4625
4626
            \GlossariesWarning{Missing location list for '##1'. Either
4627
              a rerun is required or you haven't referenced the entry.}%
4628
```

```
4629
                             }%
                   4630
                             {%
                                \PackageError{glossaries}{Glossary entry '##1' has not been
                   4631
                                 defined.}{}%
                   4632
                             }%
                   4633
                   4634
                           }%
                         }%
                   4635
                     Provide a generic way of iterating through the number list:
                         \renewcommand*{\glsnumberlistloop}[3]{%
                           \letcs{\@gls@loclist}{glo@\glsdetoklabel{##1}@loclist}%
                   4637
                           \let\@gls@org@glsnoidxdisplayloc\glsnoidxdisplayloc
                   4638
                           \let\@gls@org@glsseeformat\glsseeformat
                   4639
                   4640
                           \let\glsnoidxdisplayloc##2\relax
                   4641
                           \let\glsseeformat##3\relax
                           \ifdef\@gls@loclist
                   4642
                   4643
                           {%
                             \forlistloop{\glsnoidxnumberlistloophandler}{\@gls@loclist}%
                   4644
                   4645
                           {%
                   4646
                             \ifglsentryexists{##1}%
                   4647
                   4648
                                \GlossariesWarning{Missing location list for '##1'. Either
                   4649
                                  a rerun is required or you haven't referenced the entry.}%
                   4650
                             }%
                   4651
                             {%
                   4652
                                \PackageError{glossaries}{Glossary entry '##1' has not been
                   4653
                                 defined.}{}%
                   4654
                             }%
                   4655
                           }%
                   4656
                           \let\glsnoidxdisplayloc\@gls@org@glsnoidxdisplayloc
                   4657
                           \let\glsseeformat\@gls@org@glsseeformat
                   4658
                         }%
                   4659
                     Modify sanitize sort function
                         \let\@@gls@sanitizesort\@gls@noidx@sanitizesort
                   4660
                         \let\@@gls@nosanitizesort\@@gls@noidx@nosanitizesort
                   4661
                         \@gls@noidx@setsanitizesort
                   4662
                   4663 }
                     Preamble-only command:
                   4664 \@onlypreamble{\makenoidxglossaries}
                       \gluon glsnumberlistloop{\langle label \rangle}{\langle handler \rangle}
\glsnumberlistloop
                   4665 \newcommand*{\glsnumberlistloop}[2]{%
                          \PackageError{glossaries}{\string\glsnumberlistloop\space
                   4666
                           only works with \string\makenoidxglossaries}{}%
                   4667
                   4668 }
```

```
form \glsnoidxdisplayloc{\langle prefix\rangle}{\langle counter\rangle}{\langle format\rangle}{\langle n\rangle}
                    4669 \newcommand*{\glsnoidxnumberlistloophandler}[1]{%
                    4670 #1%
                   4671 }
4672 \newcommand*{\@no@makeglossaries}{%
                         \PackageError{glossaries}{You can't use both
                   4673
                         \string\makeglossaries\space and \string\makenoidxglossaries}%
                    4674
                         {Either use one or other (or none) of those commands but not both
                   4675
                   4676 together.}%
                   4677 }
  \@gls@noref@warn Warning when no instances of \@gls@reference found.
                   4678 \newcommand{\@gls@noref@warn}[1]{%
                         \GlossariesWarning{\string\makenoidxglossaries\space
                          is required to make \string\printnoidxglossary[type={#1}] work}%
                   4681 }
\gls@noidxglossary Write the glossary information to the aux file:
                    4682 \newcommand*{\gls@noidxglossary}{%
                         \protected@write\@auxout{}{%
                           \string\@gls@reference
                   4684
                             {\csname glo@\@gls@label @type\endcsname}%
                    4685
                    4686
                             {\@gls@label}%
                             {\string\glsnoidxdisplayloc
                   4687
                               {\@glo@counterprefix}%
                    4688
                               {\@gls@counter}%
                    4689
                    4690
                               {\@glsnumberformat}%
                               {\@glslocref}%
                   4691
                             }%
                    4692
                   4693 }%
                   4694 }
                     1.13 Writing information to associated files
           \istfile Deprecated.
                    4695 \def\istfile{\glswrite}
                       At the end of the document, the files should be created if savewrites=true.
                    4696 \AtEndDocument {%
                    4697 \glswritefiles
                    4698 }
   \Oglswritefiles Only write the files if savewrites=true
```

4699 \newcommand\*{\@glswritefiles}{%

mberlistloophandler Handler macro for \glsnumberlistloop. (The argument should be in the

## Iterate through all the glossaries

```
4700 \forallglossaries{\@glo@type}{%
```

Check for empty glossaries (patch provided by Patrick Häcker)

```
\ifcsundef{glo@\@glo@type @filetok}%
4701
4702
         {%
            \def\gls@tmp{}%
4703
         }%
4704
         {%
4705
            \edef\gls@tmp{\expandafter\the
4706
               \csname glo@\@glo@type @filetok\endcsname}%
4707
         }%
4708
         \ifx\gls@tmp\@empty
4709
4710
            \ifx\@glo@type\glsdefaulttype
              \GlossariesWarningNoLine{Glossary '\@glo@type' has no
4711
                  entries. ^ JRemember to use package option 'nomain' if
4712
4713 you
                 don't want to ~ Juse the main glossary}%
4714
4715
            \else
4716
              \GlossariesWarningNoLine{Glossary '\@glo@type' has no
                  entries}%
4717
4718
            \fi
4719
         \else
            \@glsopenfile{\glswrite}{\@glo@type}%
4720
4721
            \immediate\write\glswrite{%
               \expandafter\the
4722
                  \csname glo@\@glo@type @filetok\endcsname}%
4723
            \immediate\closeout\glswrite
4724
         \fi
4725
4726
     }%
4727 }
```

The \glossary command is redefined so that it takes an optional argument \( \text{type} \) to specify the glossary type (use \glsdefaulttype glossary by default). This shouldn't be used at user level as \glslink sets the correct format. The associated number should be stored in \theglsentrycounter before using \glossary.

# \glossary

```
4728\renewcommand*{\glossary}[1][\glsdefaulttype]{%
4729 \@glossary[#1]%
4730}
```

Define internal \@glossary to ignore its argument. This gets redefined in \@makeglossary. This is defined to just \index as memoir changes the definition of \@index. (Thanks to Dan Luecking for pointing this out.)

#### \@glossary

```
4731 \def\@glossary[#1]{\index}
```

This is a convenience command to set \@glossary. It is used by \@makeglossary and then redefined to do nothing, as it only needs to be done once.

```
\@gls@renewglossary
```

```
4732 \newcommand{\@gls@renewglossary}{%
4733 \gdef\@glossary[##1]{\@bsphack\begingroup\@wrglossary{##1}}%
4734 \let\@gls@renewglossary\@empty
4735}
```

The \@wrglossary command is redefined to have two arguments. The first argument is the glossary type, the second argument is the glossary entry (the format of which is set in \glslink).

#### \@wrglossary

```
4736 \renewcommand*{\@wrglossary}[2]{%
     \ifglssavewrites
        \protected@edef\@gls@tmp{\the\csname glo@#1@filetok\endcsname#2}%
4738
        \expandafter\global\expandafter\csname glo@#1@filetok\endcsname
4739
4740
           \expandafter{\@gls@tmp^^J}%
     \else
4741
       \ifcsdef{glo@#1@file}%
4742
4743
4744
          \expandafter\protected@write\csname glo@#1@file\endcsname{%
            \gls@disablepagerefexpansion}{#2}%
4745
       }%
4746
           \GlossariesWarning{No file defined for glossary '#1'}%
4748
       }%
4749
     \fi
4750
4751
      \endgroup\@esphack
4752 }
```

#### \@do@wrglossary

```
4753 \newcommand*{\@do@wrglossary}[1]{%
4754 \ifglsindexonlyfirst
4755 \ifglsused{#1}{}{\@@do@wrglossary{#1}}%
4756 \else
4757 \@@do@wrglossary{#1}%
4758 \fi
4759}
```

@protected@pagefmts

List of page formats to be protected against expansion.

blepagerefexpansion

4763 \newcommand\*{\gls@disablepagerefexpansion}{%

```
4764
                       \@for\@gls@this:=\gls@protected@pagefmts\do
                 4765
                         \expandafter\let\@gls@this\relax
                 4766
                       }%
                 4767
                 4768 }
   \gls@alphpage
                 4769 \newcommand*{\gls@alphpage}{\@alph\c@page}
   \gls@Alphpage
                 4770 \newcommand*{\gls@Alphpage}{\@Alph\c@page}
 \gls@numberpage
                 4771 \newcommand*{\gls@numberpage}{\number\c@page}
  \gls@romanpage
                 4772 \newcommand*{\gls@romanpage}{\romannumeral\c@page}
  \gls@Romanpage
                 4773 \newcommand*{\gls@Romanpage}{\@Roman\c@page}
\@@do@wrglossary
                   Write the glossary entry in the appropriate format. (Need to set \@glsnumberformat
                   and \@gls@counter prior to use.) The argument is the entry's label.
                 4774 \newcommand*{\@@do@wrglossary}[1]{%
                       \begingroup
                   First a bit of hackery to prevent premature expansion of \copage. Store original
                   definitions:
                 4776
                         \let\orgthe\the
                         \let\orgnumber\number
                 4777
                 4778
                         \let\orgromannumeral\romannumeral
                 4779
                         \let\orgalph\@alph
                         \let\orgAlph\@Alph
                 4780
                 4781
                         \let\orgRoman\@Roman
                   Redefine:
                         \def\the##1{%}
                 4782
                           \ifx##1\c@page \gls@numberpage\else\orgthe##1\fi}%
                 4783
                         \def\number##1{%
                 4784
                           \ifx##1\c@page \gls@numberpage\else\orgnumber##1\fi}%
                 4785
                 4786
                         \def\romannumeral##1{%
                            \ifx##1\c@page \gls@romanpage\else\orgromannumeral##1\fi}%
                 4787
                         \def\@Roman##1{\%}
                 4788
                           \ifx##1\c@page \gls@Romanpage\else\orgRoman##1\fi}%
                 4789
                         \def\@alph##1{%}
                 4790
                 4791
                            \ifx##1\c@page \gls@alphpage\else\orgalph##1\fi}%
                         \def\@Alph##1{%
                 4792
```

\ifx##1\c@page \gls@Alphpage\else\orgAlph##1\fi}%

4793

```
Prevent expansion:
```

```
4794 \gls@disablepagerefexpansion
```

Now store location in \@glslocref:

```
4795 \protected@xdef\@glslocref{\theglsentrycounter}%
4796 \endgroup
```

Escape any special characters

4797 \@gls@checkmkidxchars\@glslocref

Check if the hyper-location is the same as the location and set the hyper prefix.

```
\expandafter\ifx\theHglsentrycounter\theglsentrycounter\relax
4798
4799
       \def\@glo@counterprefix{}%
     \else
4800
       \protected@edef\@glsHlocref{\theHglsentrycounter}%
4801
        \@gls@checkmkidxchars\@glsHlocref
4802
        \edef\@do@gls@getcounterprefix{\noexpand\@gls@getcounterprefix
4803
4804
          {\@glslocref}{\@glsHlocref}%
4805
        \@do@gls@getcounterprefix
4806
     \fi
4807
 De-tok label if required
     \edef\@gls@label{\glsdetoklabel{#1}}%
 Write the information to file:
     \@@do@@wrglossary
4810 }
```

\@@do@@wrglossary

```
4811 \newcommand*{\@@do@@wrglossary}{%
```

Determine whether to use xindy or makeindex syntax

```
4812 \ifglsxindy
```

Need to determine if the formatting information starts with a ( or ) indicating a range.

```
4813
       \expandafter\@glo@check@mkidxrangechar\@glsnumberformat\@nil
4814
       \def\@glo@range{}%
       \expandafter\if\@glo@prefix(\relax
4815
          \def\@glo@range{:open-range}%
4816
4817
       \else
          \expandafter\if\@glo@prefix)\relax
4818
            \def\@glo@range{:close-range}%
4819
4820
          \fi
       \fi
```

Write to the glossary file using xindy syntax.

```
4822 \glossary[\csname glo@\@gls@label @type\endcsname]{%
4823 (indexentry :tkey (\csname glo@\@gls@label @index\endcsname)
```

```
4824 :locref \string"{\@glo@counterprefix}{\@glslocref}\string" %
4825 :attr \string"\@gls@counter\@glo@suffix\string"
4826 \@glo@range
4827 )
4828 }%
4829 \else
```

Convert the format information into the format required for makeindex

```
4830 \@set@glo@numformat{\@glo@numfmt}{\@gls@counter}{\@glsnumberformat}%
4831 {\@glo@counterprefix}%
```

Write to the glossary file using makeindex syntax.

```
4832 \glossary[\csname glo@\@gls@label @type\endcsname]{%
4833 \string\glossaryentry{\csname glo@\@gls@label @index\endcsname
4834 \@gls@encapchar\@glo@numfmt}{\@glslocref}}%
4835 \fi
4836}
```

ls@getcounterprefix

Get the prefix that needs to be prepended to counter in order to get the hyper counter. (For example, with the standard article class and hyperref, \theequation needs to be prefixed with \(section num\)|.| to get the equivalent \theHequation.) NB this assumes that the prefix ends with a dot, which is the standard. (Otherwise it makes the xindy location classes more complicated.)

```
4837 \newcommand*\@gls@getcounterprefix[2]{%
      \edef\@gls@thisloc{#1}\edef\@gls@thisHloc{#2}%
4838
      \ifx\@gls@thisloc\@gls@thisHloc
4839
        \def\@glo@counterprefix{}%
4840
4841
4842
        \def\@gls@get@counterprefix##1.#1##2\end@getprefix{%
          \left(\frac{g\log mp{\#2}}{}\right)
4843
          \ifx\@glo@tmp\@empty
4844
            \def\@glo@counterprefix{}%
4845
          \else
4846
4847
             \def\@glo@counterprefix{##1}%
          \fi
4848
        }%
4849
        \@gls@get@counterprefix#2.#1\end@getprefix
4850
```

Warn if no prefix can be formed.

```
4851
       \ifx\@glo@counterprefix\@empty
          \GlossariesWarning{Hyper target '#2' can't be formed by
4852
           prefixing^^Jlocation '#1'. You need to modify the
4853
           definition of \string\theH\@gls@counter^^Jotherwise you
4854
           will get the warning: "'name{\@gls@counter.#1}' has been^^J
4855
           referenced but does not exist"}%
4856
4857
       \fi
     \fi
4858
4859 }
```

# 1.14 Glossary Entry Cross-References

\@do@seeglossary

Write the glossary entry with a cross reference. The first argument is the entry's label, the second must be in the form  $[\langle tag \rangle] \{\langle list \rangle\}$ , where  $\langle tag \rangle$  is a tag such

```
as "see" and \langle list \rangle is a list of labels.
                  4860 \newcommand{\@do@seeglossary}[2]{%
                  4861 \def\@gls@xref{#2}%
                  4862 \@onelevel@sanitize\@gls@xref
                  4863 \@gls@checkmkidxchars\@gls@xref
                  4864\ifglsxindy
                        \glossary[\csname glo@#1@type\endcsname]{%
                  4865
                           (indexentry
                  4866
                             :tkey (\csname glo@#1@index\endcsname)
                  4867
                             :xref (\string"\@gls@xref\string")
                  4868
                             :attr \string"see\string"
                  4869
                          )
                  4870
                        }%
                  4871
                  4872\else
                  4873
                        \glossary[\csname glo@#1@type\endcsname]{%
                        \string\glossaryentry{\csname glo@#1@index\endcsname
                        \@gls@encapchar glsseeformat\@gls@xref}{Z}}%
                  4876\fi
                  4877 }
 \@gls@fixbraces If no optional argument is specified, list needs to be enclosed in a set of braces.
                  4878 \def\@gls@fixbraces#1#2#3\@nil{%
                        \frak{1}{relax}
                  4879
                  4880
                         \@@gls@fixbraces#1#2#3\@end@fixbraces
                  4881
                        \else
                          \def#1{{#2#3}}%
                  4882
                  4883
                        \fi
                  4884 }
\@@gls@fixbraces
                  4885 \def\@@gls@fixbraces#1[#2]#3\@end@fixbraces{%
                        \def#1{[#2]{#3}}%
                  4887}
          \glssee \glssee{\langle label\rangle}{\langle cross-reflist\rangle}
                  4888 \DeclareRobustCommand*{\glssee}[3][\seename]{%
                       \@do@seeglossary{#2}{[#1]{#3}}}
                  4890 \newcommand*{\Qlssee}[3][\seename]{%}
                  4891
                       \glssee[#1]{#3}{#2}}
                    The first argument specifies what tag to use (e.g. "see"), the second argument is
   \glsseeformat
                    a comma-separated list of labels. The final argument (the location) is ignored.
                  4892 \DeclareRobustCommand*{\glsseeformat}[3][\seename]{%
```

```
\emph{#1} \glsseelist{#2}}
```

```
4894 \DeclareRobustCommand*{\glsseelist}[1]{%
                     If there is only one item in the list, set the last separator to do nothing.
                         \let\@gls@dolast\relax
                     Don't display separator on the first iteration of the loop
                         \let\@gls@donext\relax
                     Iterate through the labels
                         \@for\@gls@thislabel:=#1\do{%
                     Check if on last iteration of loop
                            \ifx\@xfor@nextelement\@nnil
                   4898
                   4899
                              \@gls@dolast
                            \else
                   4900
                              \@gls@donext
                   4901
                   4902
                            \fi
                     Display the entry for this label. (Expanding label as it's a temporary control
                     sequence that's used elsewhere.)
                            \expandafter\glsseeitem\expandafter{\@gls@thislabel}%
                   4903
                     Update separators
                   4904
                           \let\@gls@dolast\glsseelastsep
                            \let\@gls@donext\glsseesep
                   4905
                         }%
                   4906
                   4907 }
                    Separator to use between penultimate and ultimate entries in a cross-referencing
   \glsseelastsep
                     list.
                   4908 \newcommand*{\glsseelastsep}{\space\andname\space}
       \glsseesep Separator to use between entires in a cross-referencing list.
                   4909 \newcommand*{\glsseesep}{, }
                    \glsseeitem{\langle label \rangle} formats individual entry in a cross-referencing list.
      \glsseeitem
                   4910 \DeclareRobustCommand*{\glsseeitem}[1]{\glshyperlink[\glsseeitemformat{#1}]{#1}}
                    As from v3.0, default is to use \glsentrytext instead of \glsentryname. (To
\glsseeitemformat
                     avoid problems with the name key being sanitized.)
                   4911 \newcommand*{\glsseeitemformat}[1]{\glsentrytext{#1}}
```

# 1.15 Displaying the glossary

\glsseelist \glsseelist{ $\langle list \rangle$ } formats list of entry labels.

An individual glossary is displayed in the text using \printglossary [\langle key-val list\rangle]. If the type key is omitted, the default glossary is displayed. The optional argument can be used to specify an alternative glossary, and can also be used to set the style, title and entry in the table of contents. Available keys are defined below.

gls@save@numberlist Provide command to store number list.

```
4912 \newcommand*{\gls@save@numberlist}[1]{%
     \ifglssavenumberlist
       \toks@{#1}%
4914
       \edef\@do@writeaux@info{%
4915
            \noexpand\csgdef{glo@\glscurrententrylabel @numberlist}{\the\toks@}%
4916
       }%
4917
4918
       \@onelevel@sanitize\@do@writeaux@info
4919
       \protected@write\@auxout{}{\@do@writeaux@info}%
     \fi
4920
4921 }
```

arn@noprintglossary

Warn the user if they have forgotten \printglossaries or \printglossary. (Will be suppressed if there is at least one occurrence of \printglossary. There is no check to ensure that there is a \printglossary for each defined glossary.)

4922 \newcommand\*{\warn@noprintglossary}{}%

\printglossary

The TOC title needs to be processed in a different manner to the main title in case the translator and hyperref packages are both being used.

```
4923\ifcsundef{printglossary}{}%
4924{%
```

If \printglossary is already defined, issue a warning and undefine it.

```
4925 \@gls@warnonglossdefined
4926 \undef\printglossary
4927 }
```

\printglossary has an optional argument. The default value is to set the glossary type to the main glossary.

```
4928\newcommand*{\printglossary}[1][type=\glsdefaulttype]{%
4929 \@printglossary{#1}{\@print@glossary}%
4930}
```

The \printglossaries command will do \printglossary for each glossary type that has been defined. It is better to use \printglossaries rather than individual \printglossary commands to ensure that you don't forget any new glossaries you may have created. It also makes it easier to chop and change the value of the acronym package option. However, if you want to list the glossaries in a different order, or if you want to set the title or table of contents entry, or if you want to use different glossary styles for each glossary, you will need to use \printglossary explicitly for each glossary type.

```
\printglossaries
```

```
4931 \newcommand*{\printglossaries}{\%
4932 \forallglossaries{\@@glo@type}{\printglossary[type=\@@glo@type]}\%
4933}
```

```
dexing application. Entries won't be sorted and the location list will be empty.
                     4934 \newcommand*{\printnoidxglossary}[1][type=\glsdefaulttype]{%
                          \@printglossary{#1}{\@print@noidx@glossary}%
                    4935
                     4936 }
rintnoidxglossaries Analogous to \printglossaries
                     4937 \newcommand*{\printnoidxglossaries}{%
                          \forallglossaries{\@@glo@type}{\printnoidxglossary[type=\@@glo@type]}%
                     4939 }
OprintglossOsetsort Initialise to do nothing.
                    4940 \newcommand*{\@printgloss@setsort}{}
                      Sets up the glossary for either \printglossary or \printnoidxglossary.
   \@printglossary
                      The first argument is the options list, the second argument is the handler macro
                      that deals with the actual glossary.
                    4941 \newcommand{\@printglossary}[2]{%
                      Set up defaults.
                           \def\@glo@type{\glsdefaulttype}%
                     4942
                          \def\glossarytitle{\csname @glotype@\@glo@type @title\endcsname}%
                     4943
                          \def\glossarytoctitle{\glossarytitle}%
                     4944
                          \let\org@glossarytitle\glossarytitle
                     4945
                     4946
                          \def\@glossarystyle{}%
                          \def\gls@dotoctitle{\glssettoctitle{\@glo@type}}%
                      Store current value of \glossaryentrynumbers. (This may be changed via the
                      optional argument)
                          \let\@org@glossaryentrynumbers\glossaryentrynumbers
                      Localise the effects of the optional argument
                          \bgroup
                      Activate or deactivate sort key:
                             \@printgloss@setsort
                     4950
                      Determine settings specified in the optional argument.
                             \setkeys{printgloss}{#1}%
                      If title has been set, but toctitle hasn't, make toctitle the same as given title
                      (rather than the title used when the glossary was defined)
                          \ifx\glossarytitle\org@glossarytitle
                     4952
                     4953
                          \else
                            \expandafter\let\csname @glotype@\@glo@type @title\endcsname
                     4954
                     4955
                                              \glossarytitle
                     4956
```

\printnoidxglossary Provide an alternative to \printglossary that doesn't require an external in-

Allow a high-level user command to indicate the current glossary

\let\currentglossary\@glo@type

4957

```
Enable individual number lists to be suppressed.
        \let\org@glossaryentrynumbers\glossaryentrynumbers
        \let\glsnonextpages\@glsnonextpages
4959
 Enable individual number list to be activated:
       \let\glsnextpages\@glsnextpages
4960
 Enable suppression of description terminators.
       \let\nopostdesc\@nopostdesc
4961
 Set up the entry for the TOC
        \gls@dotoctitle
4962
 Set the glossary style
        \@glossarystyle
 Added a way to fetch the current entry label (v3.08 updated for new \glossentry
 and \subglossentry, but this is now only needed for backward compatibility):
        \let\gls@org@glossaryentryfield\glossentry
4964
4965
        \let\gls@org@glossarysubentryfield\subglossentry
        \renewcommand{\glossentry}[1]{%
4966
          \xdef\glscurrententrylabel{\glsdetoklabel{##1}}%
4967
          \gls@org@glossaryentryfield{##1}%
4968
       }%
4969
        \renewcommand{\subglossentry}[2]{%
4970
4971
          \xdef\glscurrententrylabel{\glsdetoklabel{##2}}%
          \gls@org@glossarysubentryfield{##1}{##2}%
4972
4973
 Now do the handler macro that deals with the actual glossary:
4974
 End the current scope
     \egroup
4975
 Reset \glossaryentrynumbers
     \global\let\glossaryentrynumbers\@org@glossaryentrynumbers
 Suppress warning about no \printglossary
4977
     \global\let\warn@noprintglossary\relax
4978 }
 Internal workings of \printglossary dealing with reading the external file.
4979 \newcommand{\@print@glossary}{%
```

\@print@glossary

Some macros may end up being expanded into internals in the glossary, so need to make @ a letter. (Unlikely to be a problem since v3.08a but kept for backward compatibility.)

```
\makeatletter
```

Input the glossary file, if it exists.

\@input@{\jobname.\csname @glotype@\@glo@type @in\endcsname}%

If the glossary file doesn't exist, do \null. (This ensures that the page is shipped out and all write commands are done.) This might produce an empty page, but at this point the document isn't complete, so it shouldn't matter.

```
4982 \IfFileExists{\jobname.\csname @glotype@\@glo@type @in\endcsname}%
4983 {}%
4984 {\null}%
```

If xindy is being used, need to write the language dependent information to the .aux file for makeglossaries.

```
4985 \ifglsxindy
4986 \ifcsundef{@xdy@\@glo@type @language}%
4987 {%
4988 \edef\@do@auxoutstuff{%
4989 \noexpand\AtEndDocument{%
```

If the user removes the glossary package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```
\noexpand\immediate\noexpand\write\@auxout{%
4990
4991
                \string\providecommand\string\@xdylanguage[2]{}}%
              \noexpand\immediate\noexpand\write\@auxout{%
4992
                \string\@xdylanguage{\@glo@type}{\@xdy@main@language}}%
4993
           }%
4994
         }%
4995
       }%
4996
       {%
4997
          \edef\@do@auxoutstuff{%
4998
            \noexpand\AtEndDocument{%
4999
              \noexpand\immediate\noexpand\write\@auxout{%
5000
5001
                \string\providecommand\string\@xdylanguage[2]{}}%
              \noexpand\immediate\noexpand\write\@auxout{%
5002
                \string\@xdylanguage{\@glo@type}{\csname @xdy@\@glo@type
5003
                  @language\endcsname}}%
5004
           }%
5005
         }%
5006
5007
       ጉ%
       \@do@auxoutstuff
5008
       \edef\@do@auxoutstuff{%
5009
          \noexpand\AtEndDocument{%
5010
```

If the user removes the glossaries package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```
5017 \@do@auxoutstuff
5018 \fi
Activate warning if \makeglossaries hasn't been used.
5019 \renewcommand*{\@warn@nomakeglossaries}{%
5020 \GlossariesWarningNoLine{\string\makeglossaries\space
5021 hasn't been used,^^Jthe glossaries will not be updated}%
5022 }%
5023}
```

The sort macros all have the syntax:

```
\ensuremath{\tt Qglo@sortmacro@\langle order\rangle\{\langle type\rangle\}}
```

where  $\langle order \rangle$  is the sort order as specified by the sort key and  $\langle type \rangle$  is the glossary type. (The referenced entry list is stored in  $\ensuremath{\texttt{Qglsref@}}\langle type \rangle$ ). The actual sorting is done by  $\ensuremath{\texttt{Qglo@sortentries}}\langle handler \rangle$ } $\langle type \rangle$ }.

### \@glo@sortentries

```
5024 \newcommand*{\@glo@sortentries}[2]{%
5025
     \def\@glo@sortinglist{}%
     \def\@glo@sortinghandler{#1}%
5026
     \edef\@glo@type{#2}%
5027
     \forlistcsloop{\@glo@do@sortentries}{@glsref@#2}%
5028
     \csdef{@glsref@#2}{}%
5029
     \@for\@this@label:=\@glo@sortinglist\do{%
5030
 Has this entry already been added?
       \xifinlistcs{\@this@label}{@glsref@#2}%
5031
5032
       {}%
5033
       {%
         \listcsxadd{@glsref@#2}{\@this@label}%
5034
5035
       \ifcsdef{@glo@sortingchildren@\@this@label}%
5036
       {%
5037
         5038
       }%
5039
       {}%
5040
     }%
5041
5042 }
```

## \@glo@addchildren

# \@glo@addchildren{\\type\}{\\parent\}}

```
5043 \newcommand*{\@glo@addchildren}[2]{%
```

Scope to allow nesting.

```
5044 \bgroup
5045 \letcs{\@glo@childlist}{@glo@sortingchildren@#2}%
```

```
\@for\@this@childlabel:=\@glo@childlist\do
5046
5047
         {%
 Check this label hasn't already been added.
           \xifinlistcs{\@this@childlabel}{@glsref@#1}%
5048
5049
           {%
5050
             \listcsxadd{@glsref@#1}{\@this@childlabel}%
5051
           }%
5052
 Does this child have children?
           \ifcsdef{@glo@sortingchildren@\@this@childlabel}%
5053
5054
              \@glo@addchildren{#1}{\@this@childlabel}%
5055
           }%
5056
           {%
5057
           }%
5058
         }%
      \egroup
5060
5061 }
5062 \newcommand*{\@glo@do@sortentries}[1]{%
     \ifglshasparent{#1}%
5064
 This entry has a parent, so add it to the child list
        \edef\@glo@parent{\csuse{glo@\glsdetoklabel{#1}@parent}}%
5065
        \ifcsundef{@glo@sortingchildren@\@glo@parent}%
5066
5067
        {%
          \csdef{@glo@sortingchildren@\@glo@parent}{}%
5068
        }%
5069
        {}%
5070
5071
        \expandafter\@glo@sortedinsert
          \csname @glo@sortingchildren@\@glo@parent\endcsname{#1}%
5072
 Has the parent been added?
        \xifinlistcs{\@glo@parent}{@glsref@\@glo@type}%
5073
        {%
5074
 Yes, it has so do nothing.
        }%
5075
        {%
5076
 No, it hasn't so add it now.
           \expandafter\@glo@do@sortentries\expandafter{\@glo@parent}%
5077
        }%
5078
     }%
5079
      {%
5080
        \@glo@sortedinsert{\@glo@sortinglist}{#1}%
5081
5082
     }%
5083 }
```

@glo@do@sortentries

#### \@glo@sortedinsert

# $\ensuremath{\ensuremath{\texttt{Qlo0}}}{\ensuremath{\texttt{Clist}}}{\ensuremath{\texttt{Centry label}}}$

Insert into list.

```
5084 \newcommand*{\@glo@sortedinsert}[2]{% 5085 \dtl@insertinto{#2}{#1}{\@glo@sortinghandler}% 5086}%
```

The sort handlers need to be in the form required by datatool's dtl@sortlist macro. These must set the count register dtl@sortresult to either -1 (#1 less than #2), 0 (#1 = #2) or +1 (#1 greater than #2).

## lo@sorthandler@word

```
5087 \newcommand*{\@glo@sorthandler@word}[2]{%
     \letcs\@gls@sort@A{glo@\glsdetoklabel{#1}@sort}%
     \letcs\@gls@sort@B{glo@\glsdetoklabel{#2}@sort}%
5089
     \edef\glo@do@compare{%
5090
       \noexpand\dtlwordindexcompare{\noexpand\dtl@sortresult}%
5091
       {\expandonce\@gls@sort@B}%
5092
5093
       {\expandonce\@gls@sort@A}%
5094
5095
     \glo@do@compare
5096 }
```

## @sorthandler@letter

```
5097 \newcommand*{\@glo@sorthandler@letter}[2]{%
5098
     \letcs\@gls@sort@A{glo@\glsdetoklabel{#1}@sort}%
     \letcs\@gls@sort@B{glo@\glsdetoklabel{#2}@sort}%
5099
     \edef\glo@do@compare{%
5100
       \noexpand\dtlletterindexcompare{\noexpand\dtl@sortresult}%
5101
       {\expandonce\@gls@sort@B}%
5102
       {\expandonce\@gls@sort@A}%
5103
5104
     \glo@do@compare
5105
5106 }
```

#### lo@sorthandler@case Case-sensitive sort.

```
5107 \newcommand*{\@glo@sorthandler@case}[2]{%
     \letcs\@gls@sort@A{glo@\glsdetoklabel{#1}@sort}%
5109
     \letcs\@gls@sort@B{glo@\glsdetoklabel{#2}@sort}%
     \edef\glo@do@compare{%
5110
       \noexpand\dtlcompare{\noexpand\dtl@sortresult}%
5111
       {\expandonce\@gls@sort@B}%
5112
       {\expandonce\@gls@sort@A}%
5113
     }%
5114
5115
     \glo@do@compare
```

OsorthandlerOnocase Case-insensitive sort.

```
\letcs\@gls@sort@A{glo@\glsdetoklabel{#1}@sort}%
                          \letcs\@gls@sort@B{glo@\glsdetoklabel{#2}@sort}%
                    5119
                          \edef\glo@do@compare{%
                    5120
                            \noexpand\dtlicompare{\noexpand\dtl@sortresult}%
                    5121
                            {\expandonce\@gls@sort@B}%
                    5122
                            {\expandonce\@gls@sort@A}%
                    5123
                    5124
                          }%
                          \glo@do@compare
                    5125
                    5126 }
OgloOsortmacroOword Sort macro for 'word'
                    5127 \newcommand*{\@glo@sortmacro@word}[1]{%
                    5128
                          \ifdefstring{\@glo@default@sorttype}{standard}%
                    5129
                            \@glo@sortentries{\@glo@sorthandler@word}{#1}%
                    5130
                          }%
                    5131
                          {%
                    5132
                    5133
                            \PackageError{glossaries}{Conflicting sort options:^^J
                             \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
                    5134
                             \string\printnoidxglossary[sort=word]}{}%
                    5135
                          }%
                    5136
                    5137 }
lo@sortmacro@letter Sort macro for 'letter'
                    5138 \newcommand*{\@glo@sortmacro@letter}[1]{%
                          \ifdefstring{\@glo@default@sorttype}{standard}%
                    5139
                    5140
                            \@glo@sortentries{\@glo@sorthandler@letter}{#1}%
                    5141
                          }%
                    5142
                          {%
                    5143
                    5144
                            \PackageError{glossaries}{Conflicting sort options:^^J
                             \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
                    5145
                             \string\printnoidxglossary[sort=letter]}{}%
                    5146
                          }%
                    5147
                    5148 }
OsortmacroOstandard Sort macro for 'standard'. (Use either 'word' or 'letter' order.)
                    5149 \newcommand*{\@glo@sortmacro@standard}[1]{%
                    5150
                          \ifdefstring{\@glo@default@sorttype}{standard}%
                    5151
                          {%
                            \ifcsdef{@glo@sorthandler@\glsorder}%
                    5152
                    5153
                               \@glo@sortentries{\csuse{@glo@sorthandler@\glsorder}}{#1}%
                    5154
                            }%
                    5155
                            {%
                    5156
                              \PackageError{glossaries}{Unknown sort handler '\glsorder'}{}%
                    5157
                            }%
                    5158
                    5159
                          }%
```

5117 \newcommand\*{\@glo@sorthandler@nocase}[2]{%

```
\PackageError{glossaries}{Conflicting sort options:^^J
                    5161
                             \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
                    5162
                             \string\printnoidxglossary[sort=standard]}{}%
                    5163
                    5164
                          }%
                    5165 }
OgloOsortmacroOcase Sort macro for 'case'
                    5166 \newcommand*{\@glo@sortmacro@case}[1]{%
                          \ifdefstring{\@glo@default@sorttype}{standard}%
                    5167
                    5168
                            \@glo@sortentries{\@glo@sorthandler@case}{#1}%
                    5169
                    5170
                          }%
                    5171
                          {%
                            \PackageError{glossaries}{Conflicting sort options:^^J
                    5172
                             \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
                    5173
                             \string\printnoidxglossary[sort=case]}{}%
                    5174
                          }%
                    5175
                    5176}
lo@sortmacro@nocase Sort macro for 'nocase'
                    5177 \newcommand*{\@glo@sortmacro@nocase}[1]{%
                          \ifdefstring{\@glo@default@sorttype}{standard}%
                    5178
                    5179
                            \@glo@sortentries{\@glo@sorthandler@nocase}{#1}%
                    5180
                          }%
                    5181
                          {%
                    5182
                            \PackageError{glossaries}{Conflicting sort options:^^J
                    5183
                             \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
                    5184
                             \string\printnoidxglossary[sort=nocase]}{}%
                    5185
                          }%
                    5186
                    5187 }
                     Sort macro for 'def'. The order of definition is given in \glolist@(type).
\@glo@sortmacro@def
                    5188 \newcommand*{\@glo@sortmacro@def}[1]{%
                          \def\@glo@sortinglist{}%
                          \forglsentries[#1]{\@gls@thislabel}%
                    5190
                    5191
                            \xifinlistcs{\@gls@thislabel}{@glsref@#1}%
                    5192
                    5193
                               \listeadd{\@glo@sortinglist}{\@gls@thislabel}%
                    5194
                            }%
                    5195
                            {%
                    5196
                      Hasn't been referenced.
                            }%
                    5197
                    5198
                          \cslet{@glsref@#1}{\@glo@sortinglist}%
                    5199
```

5160

5200 }

```
lo@sortmacro@def@do This won't include parent entries that haven't been referenced.
```

```
5201 \newcommand*{\@glo@sortmacro@def@do}[1]{%
     \ifinlistcs{#1}{@glsref@\@glo@type}%
5202
     {}%
5203
     {%
5204
        \listcsadd{@glsref@\@glo@type}{#1}%
5205
5206
5207
      \ifcsdef{@glo@sortingchildren@#1}%
5208
5209
       \@glo@addchildren{\@glo@type}{#1}%
5210
5211
     {}%
5212 }
```

\@glo@sortmacro@use

Sort macro for 'use'. (No sorting is required, as the entries are already in order of use, so do nothing.)

5213 \newcommand\*{\@glo@sortmacro@use}[1]{}

rint@noidx@glossary

Glossary handler for \printnoidxglossary which doesn't use an indexing application. Since \printnoidxglossary may occur at the start of the document, we can't just check if an entry has been used. Instead, the first pass needs to write information to the aux file every time an entry is referenced. This needs to be read in on the second run and stored in a list corresponding to the appropriate glossary.

```
5214 \newcommand*{\@print@noidx@glossary}{%
5215 \ifcsdef{@glsref@\@glo@type}%
5216 {%
```

#### Sort the entries:

```
5217 \ifcsdef{@glo@sortmacro@\@glo@sorttype}%
5218 {%
5219 \csuse{@glo@sortmacro@\@glo@sorttype}{\@glo@type}%
5220 }%
5221 {%
5222 \PackageError{glossaries}{Unknown sort handler '\@glo@sorttype'}{}%
5223 }%
```

# Do the glossary heading and preamble

```
5224 \glossarysection[\glossarytoctitle]{\glossarytitle}%
5225 \glossarypreamble
5226 \begin{theglossary}%
5227 \glossaryheader
5228 \glsresetentrylist
5229 \def\@gls@currentlettergroup{}%
```

Iterate through the entries.

```
5230 \forlistcsloop{\@gls@noidx@do}{@glsref@\@glo@type}%
```

Finally end the glossary and do the postamble:

5231 \end{theglossary}%

```
5232
                         \glossarypostamble
                      }%
                 5233
                      {%
                 5234
                         \@gls@noref@warn{\@glo@type}%
                 5235
                      }%
                 5236
                 5237 }
 \glo@grabfirst
                 5238 \def\glo@grabfirst#1#2\@nil{%
                 5239
                      \def\@gls@firsttok{#1}%
                      \ifdefempty\@gls@firsttok
                 5240
                 5241
                         \def\@glo@thislettergrp{0}%
                 5242
                      }%
                 5243
                      {%
                 5244
                  Sanitize it:
                         \@onelevel@sanitize\@gls@firsttok
                 5245
                  Fetch the first letter:
                         \expandafter\@glo@grabfirst\@gls@firsttok{}{}\@nil
                 5247
                      }%
                 5248}
\@glo@grabfirst
                 5249 \def\@glo@grabfirst#1#2\@nil{%
                      \ifdefempty\@glo@thislettergrp
                 5250
                 5251
                      {%
                 5252
                          \def\@glo@thislettergrp{glssymbols}%
                      }%
                 5253
                      {%
                 5254
                         \count@=\uccode'#1\relax
                 5255
                 5256
                         \ifnum\count@=0\relax
                           \def\@glo@thislettergrp{glssymbols}%
                 5257
                         \else
                 5258
                           \ifdefstring\@glo@sorttype{case}%
                 5259
                 5260
                              \count@='#1\relax
                 5261
                           }%
                 5262
                           {%
                 5263
                 5264
                           }%
                           \edef\@glo@thislettergrp{\the\count@}%
                 5265
                         \fi
                 5266
                 5267
                      }%
                 5268}
```

\@gls@noidx@do Handler for list iteration used by \@print@noidx@glossary. The argument is the entry label. This only allows one sublevel.

 $\verb| 5269 \end{@gls@noidx@do}[1]{||} \\$ 

```
Get this entry's location list
     \global\letcs{\@gls@loclist}{glo@\glsdetoklabel{#1}@loclist}%
 Does this entry have a parent?
5271
     \ifglshasparent{#1}%
5272
     {%
 Has a parent.
        \gls@level=\csuse{glo@\glsdetoklabel{#1}@level}\relax
5273
        \ifdefvoid{\@gls@loclist}
5274
5275
          \subglossentry{\gls@level}{#1}{}%
5276
        }%
5277
        {%
5278
          \subglossentry{\gls@level}{#1}%
5279
5280
             \glossaryentrynumbers{\glsnoidxloclist{\@gls@loclist}}%
5281
          }%
5282
       }%
5283
     }%
5284
5285
      {%
 Doesn't have a parent Get this entry's sort key
        \letcs{\@gls@sort}{glo@\glsdetoklabel{#1}@sort}%
5286
 Fetch the first letter:
        \expandafter\glo@grabfirst\@gls@sort{}{}\@nil
5287
5288
        \ifdefequal{\@glo@thislettergrp}{\@gls@currentlettergroup}%
5289
        {%
5290
 Do the group header:
          \ifdefempty{\@gls@currentlettergroup}{}{\glsgroupskip}%
5291
5292
          \glsgroupheading{\@glo@thislettergrp}%
5293
5294
        \let\@gls@currentlettergroup\@glo@thislettergrp
 Do this entry:
        \ifdefvoid{\@gls@loclist}
5295
5296
          \glossentry{#1}{}%
5297
        }%
5298
        {%
5299
5300
          \glossentry{#1}%
5301
            \glossaryentrynumbers{\glsnoidxloclist{\@gls@loclist}}%
5302
          }%
5303
       }%
5304
     }%
5305
5306 }
```

```
\glsnoidxloclist
```

## \glsnoidxloclist{\langle list cs\rangle}

## Display location list.

```
5307 \newcommand*{\glsnoidxloclist}[1]{%
5308 \def\@gls@noidxloclist@sep{}%
5309 \def\@gls@noidxloclist@prev{}%
5310 \forlistloop{\glsnoidxloclisthandler}{#1}%
5311}
```

#### noidxloclisthandler Handler for location list iterator.

```
5312 \newcommand*{\glsnoidxloclisthandler}[1]{%
5313 \ifdefstring{\@gls@noidxloclist@prev}{#1}%
5314 {%
```

Same as previous location so skip.

splayloclisthandler Handler for location list iterator when used with \glsdisplaynumberlist.

```
5323 \newcommand*{\glsnoidxdisplayloclisthandler}[1]{%
5324 \ifdefstring{\@gls@noidxloclist@prev}{#1}%
5325 {%
```

Same as previous location so skip.

```
5326 }%
5327 {%
5328 \@gls@noidxloclist@sep
5329 \@gls@noidxloclist@prev
5330 \def\@gls@noidxloclist@prev{#1}%
5331 }%
5332}
```

\glsnoidxdisplayloc

 $\verb|\glsnoidxdisplayloc{|\langle prefix\rangle|}{\langle counter\rangle}|{\langle format\rangle}|{\langle location\rangle}|$ 

Display a location in the location list.

```
5333 \newcommand*\glsnoidxdisplayloc[4]{%

5334 \setentrycounter[#1]{#2}%

5335 \csuse{#3}{#4}%

5336}
```

\@gls@reference

 $\cline{gls@reference}{\langle type\rangle}{\langle label\rangle}{\langle loc\rangle}$ 

Identifies that a reference has been used (for use in the aux file). All entries must be defined in the preamble.

```
5337 \newcommand*{\@gls@reference}[3]{%
```

## Add to label list

```
5338 \glsdoifexistsorwarn{#2}%
5339 {%
5340 \ifcsundef{@glsref@#1}{\csgdef{@glsref@#1}{}}%
5341 \ifinlistcs{#2}{@glsref@#1}%
5342 {}%
5343 {\listcsgadd{@glsref@#1}{#2}}%
Add to location list
```

```
5344 \ifcsundef{glo@\glsdetoklabel{#2}@loclist}%
5345 {\csgdef{glo@\glsdetoklabel{#2}@loclist}{}}%
5346 {}%
5347 \listcsgadd{glo@\glsdetoklabel{#2}@loclist}{#3}%
5348 }%
```

The keys that can be used in the optional argument to \printglossary or \printnoidxglossary are as follows: The type key sets the glossary type.

```
5350 \end{fine} \end
```

The title key sets the title used in the glossary section header. This overrides the title used in \newglossary.

```
5351 \define@key{printgloss}{title}{%
5352 \def\glossarytitle{#1}%
5353 \let\gls@dotoctitle\relax
5354}
```

The toctitle sets the text used for the relevant entry in the table of contents.

```
5355 \define@key{printgloss}{toctitle}{%
5356 \def\glossarytoctitle{#1}%
5357 \let\gls@dotoctitle\relax
5358}
```

The style key sets the glossary style (but only for the given glossary).

```
5359 \define@key{printgloss}{style}{%
     \ifcsundef{@glsstyle@#1}%
5360
     {%
5361
        \PackageError{glossaries}%
5362
5363
        {Glossary style '#1' undefined}{}%
5364
5365
        \def\@glossarystyle{\setglossentrycompatibility
5366
          \csname @glsstyle@#1\endcsname}%
5367
     }%
5368
5369 }
```

The numbered section key determines if this glossary should be in a numbered section.

```
5370 \define@choicekey{printgloss}{numberedsection}[\val\nr]{%
                   5371 false, nolabel, autolabel, nameref} [nolabel] {%
                   5372
                         \ifcase\nr\relax
                   5373
                           \renewcommand*{\@@glossarysecstar}{*}%
                   5374
                           \renewcommand*{\@@glossaryseclabel}{}%
                   5375
                           \renewcommand*{\@@glossarysecstar}{}%
                   5376
                           \renewcommand*{\@@glossaryseclabel}{}%
                   5377
                   5378
                           \renewcommand*{\@@glossarysecstar}{}%
                   5379
                           \renewcommand*{\@0glossaryseclabel}{\label{\glsautoprefix\@glo@type}}%
                   5380
                   5381
                         \or
                           \renewcommand*{\@@glossarysecstar}{*}%
                   5382
                           \renewcommand*{\@@glossaryseclabel}{%
                   5383
                   5384
                             \protected@edef\@currentlabelname{\glossarytoctitle}%
                             \label{\glsautoprefix\@glo@type}}%
                   5385
                   5386
                         \fi
                   5387 }
                       The nogroupskip key determines whether or not there should be a vertical
                     gap between glossary groups.
                   5388 \define@choicekey{printgloss}{nogroupskip}{true,false}[true]{%
                         \csuse{glsnogroupskip#1}%
                   5389
                   5390 }
                     The nonumberlist key determines if this glossary should have a number list.
                   5391 \define@boolkey{printgloss}[gls]{nonumberlist}[true]{%
                   5392 \ifglsnonumberlist
                          \def\glossaryentrynumbers##1{}%
                   5394\else
                          \def\glossaryentrynumbers##1{##1}%
                   5395
                   5396\fi}
                       The sort key sets the glossary sort handler (\printnoidxglossary only).
                   5397 \define@key{printgloss}{sort}{\@glo@assign@sortkey{#1}}
5398 \newcommand*{\@glo@no@assign@sortkey}[1]{%
                          \PackageError{glossaries}{'sort' key not permitted with
                   5399
                          \string\printglossary}%
                   5400
                   5401
                          {The 'sort' key may only be used with \string\printnoidxglossary}%
                   5402 }
@glo@assign@sortkey For use with \printnoidxglossary
                   5403 \newcommand*{\@@glo@assign@sortkey}[1]{%
                   5404
                         \def\@glo@sorttype{#1}%
                   5405 }
```

\@glsnonextpages

Suppresses the next number list only. Global assignments required as it may not occur in the same level of grouping as the next numberlist. (For example, if \glsnonextpages is place in the entry's description and 3 column tabular style glossary is used.) \org@glossaryentrynumbers needs to be set at the start of each glossary, in the event that \glossaryentrynumber is redefined.

```
5406 \newcommand*{\@glsnonextpages}{%
     \gdef\glossaryentrynumbers##1{%
         \glsresetentrylist
5408
     }%
5409
5410 }
```

\@glsnextpages

Activate the next number list only. Global assignments required as it may not occur in the same level of grouping as the next numberlist. (For example, if \glsnextpages is place in the entry's description and 3 column tabular style glossary is used.) \org@glossaryentrynumbers needs to be set at the start of each glossary, in the event that \glossaryentrynumber is redefined.

```
5411 \newcommand*{\@glsnextpages}{%
     \gdef\glossaryentrynumbers##1{%
        ##1\glsresetentrylist}}
```

```
\glsresetentrylist Resets\glossaryentrynumbers
```

```
5414 \newcommand*{\glsresetentrylist}{%
    \global\let\glossaryentrynumbers\org@glossaryentrynumbers}
```

\glsnonextpages Outside of \printglossary this does nothing.

5416 \newcommand\*{\glsnonextpages}{}

\glsnextpages Outside of \printglossary this does nothing.

5417 \newcommand\*{\glsnextpages}{}

glossaryentry If the entrycounter package option has been used, define a counter to number each level 0 entry.

```
5418 \ifglsentrycounter
5419
     \ifx\@gls@counterwithin\@empty
5420
       \newcounter{glossaryentry}
     \else
5421
       \newcounter{glossaryentry}[\@gls@counterwithin]
5422
     \def\theHglossaryentry{\currentglossary.\theglossaryentry}
5424
5425\fi
```

If the subentrycounter package option has been used, define a counter to numglossarysubentry ber each level 1 entry.

```
5426 \ifglssubentrycounter
5427 \ifglsentrycounter
       \newcounter{glossarysubentry}[glossaryentry]
5428
    \else
5429
```

```
5431
                    5432 \def\theHglossarysubentry{\currentglssubentry.\theglossarysubentry}
                    5433\fi
esetsubentrycounter Resets the glossarysubentry counter.
                    5434 \ifglssubentrycounter
                    5435 \newcommand*{\glsresetsubentrycounter}{%
                            \setcounter{glossarysubentry}{0}%
                    5437
                    5438 \else
                    5439 \newcommand*{\glsresetsubentrycounter}{}
                    5440\fi
esetsubentrycounter Resets the glossarentry counter.
                    5441\ifglsentrycounter
                         \newcommand*{\glsresetentrycounter}{%
                            \setcounter{glossaryentry}{0}%
                    5443
                    5444 }
                    5445\else
                    5446 \newcommand*{\glsresetentrycounter}{}
                    5447\fi
      \glsstepentry Advance the glossaryentry counter if in use. The argument is the label associ-
                      ated with the entry.
                    5448 \ifglsentrycounter
                         \newcommand*{\glsstepentry}[1]{%
                            \refstepcounter{glossaryentry}%
                    5450
                            \label{glsentry-\glsdetoklabel{#1}}%
                    5451
                         }
                    5452
                    5453\else
                    5454 \newcommand*{\glsstepentry}[1]{}
                    5455\fi
  \glsstepsubentry Advance the glossarysubentry counter if in use. The argument is the label asso-
                      ciated with the subentry.
                    5456 \ifglssubentrycounter
                          \newcommand*{\glsstepsubentry}[1]{%
                            \edef\currentglssubentry{\glsdetoklabel{#1}}%
                    5458
                    5459
                            \refstepcounter{glossarysubentry}%
                            \label{glsentry-\currentglssubentry}%
                    5460
                    5461
                    5462\else
                    5463 \newcommand*{\glsstepsubentry}[1]{}
                    5464\fi
       \glsrefentry Reference the entry or sub-entry counter if in use, otherwise just do \gls.
```

\newcounter{glossarysubentry}

5430

5465\ifglsentrycounter

```
5467\else
                         \ifglssubentrycounter
                    5468
                           \newcommand*{\glsrefentry}[1]{\ref{glsentry-\glsdetoklabel{#1}}}
                    5469
                    5470
                            \newcommand*{\glsrefentry}[1]{\gls{#1}}
                    5471
                    5472
                         \fi
                    5473\fi
lsentrycounterlabel Defines how to display the glossaryentry counter.
                    5474\ifglsentrycounter
                    5475 \newcommand*{\glsentrycounterlabel}{\theglossaryentry.\space}
                    5477 \newcommand*{\glsentrycounterlabel}{}
                    5478\fi
ubentrycounterlabel Defines how to display the glossarysubentry counter.
                    5479 \ifglssubentrycounter
                    5480 \newcommand*{\glssubentrycounterlabel}{\theglossarysubentry)\space}
                    5481 \else
                    5482 \newcommand*{\glssubentrycounterlabel}{}
                    5483\fi
      \glsentryitem Step and display glossaryentry counter, if appropriate.
                    5484\ifglsentrycounter
                          \newcommand*{\glsentryitem}[1]{%
                    5485
                            \glsstepentry{#1}\glsentrycounterlabel
                    5486
                    5487
                         }
                    5488 \else
                          \newcommand*{\glsentryitem}[1]{\glsresetsubentrycounter}
                    5489
                    5490\fi
  \glssubentryitem Step and display glossarysubentry counter, if appropriate.
                    5491 \ifglssubentrycounter
                    5492 \newcommand*{\glssubentryitem}[1]{%
                            \glsstepsubentry{#1}\glssubentrycounterlabel
                    5493
                    5494
                    5495\else
                         \newcommand*{\glssubentryitem}[1]{}
                    5496
                    5497\fi
        theglossary If the theglossary environment has already been defined, a warning will be is-
                      sued. This environment should be redefined by glossary styles.
                    5498 \ifcsundef{theglossary}%
                    5499 {%
                    5500 \newenvironment{theglossary}{}{}%
                    5501 }%
                    5502 {%
```

5466 \newcommand\*{\glsrefentry}[1]{\ref{glsentry-\glsdetoklabel{#1}}}

```
5503 \@gls@warnontheglossdefined
5504 \renewenvironment{theglossary}{}{}%
5505}
```

The glossary header is given by \glossaryheader. This forms part of the glossary style, and must indicate what should appear immediately after the start of the theglossary environment. (For example, if the glossary uses a tabular-like environment, it may be used to set the header row.) Note that if you don't want a header row, the glossary style must redefine \glossaryheader to do nothing.

\glossaryheader

```
5506 \newcommand*{\glossaryheader}{}
```

```
\glstarget \glstarget{\langle label\rangle}{\langle name\rangle}
```

Provide user interface to \@glstarget to make it easier to modify the glossary style in the document.

```
5507 \newcommand*{\glstarget}[2]{\@glstarget{\glolinkprefix#1}{#2}}
```

As from version 3.08, glossary information is now written to the external files using \glossentry and \subglossentry instead of \glossaryentryfield and \glossarysubentryfield. The default definition provides backward compatibility for glossary styles that use the old forms.

compatibleglossentry

```
\glossentry{\langle label \rangle}{\langle page-list \rangle}
```

```
5508 \providecommand*{\compatibleglossentry}[2]{%
                      \toks@{#2}%
                5509
                      \protected@edef\@do@glossentry{\noexpand\glossaryentryfield{#1}%
                5510
                        {\noexpand\glsnamefont
                5511
                5512
                           {\expandafter\expandonce\csname glo@#1@name\endcsname}}%
                        {\expandafter\expandonce\csname glo@#1@desc\endcsname}%
                5513
                5514
                        {\expandafter\expandonce\csname glo@#1@symbol\endcsname}%
                5515
                        {\theta}
                5516
                      \@do@glossentry
                5517
                5518 }
\glossentryname
                5519 \newcommand*{\glossentryname}[1]{%
                      \glsdoifexistsorwarn{#1}%
                5520
                      {%
                5521
                        \letcs{\glo@name}{glo@\glsdetoklabel{#1}@name}%
                5522
                        \expandafter\glsnamefont\expandafter{\glo@name}%
                5523
                5524
                      }%
                5525 }
```

```
\Glossentryname
                                                                  5526 \newcommand*{\Glossentryname}[1]{%
                                                                                    \glsdoifexistsorwarn{#1}%
                                                                  5527
                                                                                    {%
                                                                  5528
                                                                  5529
                                                                                           \glsnamefont{\Glsentryname{#1}}%
                                                                                   }%
                                                                  5530
                                                                  5531 }
            \glossentrydesc
                                                                  5532 \newcommand*{\glossentrydesc}[1]{%
                                                                                    \glsdoifexistsorwarn{#1}%
                                                                  5533
                                                                                    {%
                                                                  5534
                                                                                               \glsentrydesc{#1}%
                                                                  5535
                                                                                   }%
                                                                  5536
                                                                  5537 }
            \Glossentrydesc
                                                                  5538 \newcommand*{\Glossentrydesc}[1]{%
                                                                                    \verb|\glsdoifexistsorwarn{#1}||
                                                                  5539
                                                                                   {%
                                                                  5540
                                                                                           \Glsentrydesc{#1}%
                                                                  5541
                                                                                   }%
                                                                  5542
                                                                  5543 }
     \glossentrysymbol
                                                                  5544 \newcommand*{\glossentrysymbol}[1]{%
                                                                                    \glsdoifexistsorwarn{#1}%
                                                                  5545
                                                                  5546
                                                                                    {%
                                                                  5547
                                                                                                \glsentrysymbol{#1}%
                                                                  5548
                                                                                   }%
                                                                  5549}
     \Glossentrysymbol
                                                                  5550 \newcommand*{\Glossentrysymbol}[1]{%
                                                                                    \glsdoifexistsorwarn{#1}%
                                                                  5551
                                                                  5552
                                                                                    {%
                                                                                               \Glsentrysymbol{#1}%
                                                                  5553
                                                                                   }%
                                                                  5554
                                                                  5555 }
patiblesubglossentry
                                                                           \subglossentry{\level\range} \{\level\range\} \{\level\range\range} \{\level\range\range} \range \level\range\range \range \rang
                                                                  5556 \providecommand*{\compatiblesubglossentry}[3]{%
                                                                                    \toks@{#3}%
                                                                  5557
                                                                                    \protected@edef\@do@subglossentry{\noexpand\glossarysubentryfield{\number#1}%
                                                                  5558
                                                                  5559
```

{\noexpand\glsnamefont

5560

```
{\expandafter\expandonce\csname glo@#2@name\endcsname}}%
5561
5562
        {\expandafter\expandonce\csname glo@#2@desc\endcsname}%
        {\expandafter\expandonce\csname glo@#2@symbol\endcsname}%
5563
5564
        {\theta}^{\star}
     }%
5565
     \@do@subglossentry
5566
5567 }
5568 \newcommand*{\setglossentrycompatibility}{%
     \let\glossentry\compatibleglossentry
5570
     \let\subglossentry\compatiblesubglossentry
5571 }
```

5572\setglossentrycompatibility

\glossaryentryfield

 ${ t sentrycompatibility}$ 

```
\verb|\glossaryentryfield{|\langle label\rangle| |\langle lame\rangle| |\langle description\rangle| |\langle symbol\rangle| |\langle page| list\rangle|}
```

This command formerly governed how each entry row should be formatted in the glossary. Now deprecated.

```
5573 \newcommand{\glossaryentryfield}[5]{%
5574 \GlossariesWarning
5575 {Deprecated use of \string\glossaryentryfield.^^J
5576 I recommend you change to \string\glossentry.^^J
5577 If you've just upgraded, try removing your gls auxiliary
5578 files^^J and recompile}%
5579 \noindent\textbf{\glstarget{#1}{#2}} #4 #3. #5\par}
```

lossarysubentryfield

```
\glossarysubentryfield{\level\}{\label\}{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\label\}}\left\{\labe
```

This command governs how each subentry should be formatted in the glossary. Glossary styles need to redefine this command. Most of the predefined styles ignore  $\langle symbol \rangle$ . The first argument is a number indicating the level. (The level should be greater than or equal to 1.)

```
5580 \newcommand*{\glossarysubentryfield}[6]{%
5581 \GlossariesWarning
5582 {Deprecated use of \string\glossarysubentryfield.^^J
5583 I recommend you change to \string\subglossentry.^^J
5584 If you've just upgraded, try removing your gls auxiliary
5585 files^^J and recompile}%
5586 \glstarget{#2}{\strut}#4. #6\par}
```

Within each glossary, the entries form distinct groups which are determined by the first character of the sort key. When using makeindex, there will be a maximum of 28 groups: symbols, numbers, and the 26 alphabetical groups A, ..., Z. If you use xindy the groups will depend on whatever alphabet is used. This is determined by the language or custom alphabets can be created in the xindy style file. The command \glsgroupskip specifies what to do between glossary groups. Glossary styles must redefine this command. (Note that \glsgroupskip only occurs between groups, not at the start or end of the glossary.)

\glsgroupskip

```
5587 \newcommand*{\glsgroupskip}{}
```

Each of the 28 glossary groups described above is preceded by a group heading. This is formatted by the command \glsgroupheading which takes one argument which is the *label* assigned to that group (not the title). The corresponding labels are: glssymbols, glsnumbers, A, ..., Z. Glossary styles must redefined this command. (In between groups, \glsgroupheading comes immediately after \glsgroupskip.)

\glsgroupheading

```
5588 \newcommand*{\glsgroupheading}[1]{}
```

It is possible to "trick" makeindex into treating entries as though they belong to the same group, even if the terms don't start with the same letter, by modifying the sort key. For example, all entries belonging to one group could be defined so that the sort key starts with an a, while entries belonging to another group could be defined so that the sort key starts with a b, and so on. If you want each group to have a heading, you would then need to modify the translation control sequences \glsgetgrouptitle and \glsgetgrouplabel so that the label is translated into the required title (and vice-versa).

```
\gluon glsgetgrouptitle{\langle label \rangle}
```

This command produces the title for the glossary group whose label is given by  $\langle label \rangle$ . By default, the group labelled glssymbols produces \glssymbolsgroupname, the group labelled glsnumbers produces \glsnumbersgroupname and all the other groups simply produce their label. As mentioned above, the group labels are: glssymbols, glsnumbers, A, ..., Z. If you want to redefine the group titles, you will need to redefine this command. Languages other than English may produce labels that are non-expandable, so we need to check for that otherwise it will create a "missing \endcsname inserted" error.

\glsgetgrouptitle

```
5589 \newcommand*{\glsgetgrouptitle}[1]{%
5590 \@gls@getgrouptitle{#1}{\@gls@grptitle}%
5591 \@gls@grptitle
5592}
```

\@gls@getgrouptitle

Gets the group title specified by the label (first argument) and stores in the second argument, which must be a control sequence.

```
5593 \newcommand*{\@gls@getgrouptitle}[2]{%
```

Even if the argument appears to be a single letter, it won't be considered a single letter by \dtl@ifsingle if it's an active character.

```
5594 \dtl@ifsingle{#1}%
5595 {%
      \ifcsundef{#1groupname}{\def#2{#1}}{\letcs#2{#1groupname}}%
5596
5597
5598
    {%
       \ifboolexpr{test{\ifstrequal{#1}{glssymbols}}
5599
                or test{\ifstrequal{#1}{glsnumbers}}}%
5600
5601
         \ifcsundef{#1groupname}{\def#2{#1}}{\letcs#2{#1groupname}}%
5602
      }%
5603
5604
         \def#2{#1}%
5605
      }%
5606
5607 }%
5608 }
```

Ogetothergrouptitle

Version for the no-indexing app option:

```
5609 \newcommand*{\@gls@noidx@getgrouptitle}[2]{\%
5610 \DTLifint{\#1}\%
5611 {\edef\#2{\char\#1\relax}}\%
5612 {\%
5613 \ifcsundef{\#1groupname}{\def\#2{\#1}}{\letcs\#2{\#1groupname}}\%
5614 }\%
5615}
```

```
\glsgetgrouplabel{\langle title \rangle}
```

This command does the reverse to the previous command. The argument is the group title, and it produces the group label. Note that if you redefine \glsgetgrouptitle, you will also need to redefine \glsgetgrouplabel.

\glsgetgrouplabel

```
5616 \newcommand*{\glsgetgrouplabel}[1]{%
5617 \ifthenelse{\equal{#1}{\glssymbolsgroupname}}{glssymbols}{%
5618 \ifthenelse{\equal{#1}{\glsnumbersgroupname}}{glsnumbers}{#1}}}
```

The command \setentrycounter sets the entry's associated counter (required by \glshypernumber etc.) \glslink and \glsadd encode the \glossary argument so that the relevant counter is set prior to the formatting command.

\setentrycounter

```
5619 \newcommand*{\setentrycounter}[2][]{%
```

```
\def\@glo@counterprefix{#1}%
5621
     \ifx\@glo@counterprefix\@empty
       \def\@glo@counterprefix{.}%
5622
5623
     \else
5624
       \def\@glo@counterprefix{.#1.}%
5625
     \def\glsentrycounter{#2}%
5626
5627 }
```

The current glossary style can be set using \setglossarystyle{\langle style \}.

```
\setglossarystyle
```

```
5628 \verb|\newcommand*{\setglossarystyle}[1]{\label{lem:setglossarystyle}} \\
      \ifcsundef{@glsstyle@#1}%
5630
         \PackageError{glossaries}{Glossary style '#1' undefined}{}%
5631
      }%
5632
5633
         \csname @glsstyle@#1\endcsname
5634
      }%
5635
5636 }
```

#### \glossarystyle

```
5637 \newcommand*{\glossarystyle}[1]{%
5638
     \ifcsundef{@glsstyle@#1}%
5639
       \PackageError{glossaries}{Glossary style '#1' undefined}{}%
5640
     }%
5641
5642
5643
       \GlossariesWarning
       {Deprecated command \string\glossarystyle.^^J
5644
        I recommend you switch to \string\setglossarystyle\space unless
5645
5646
        you want to maintain backward compatibility}%
       \setglossentrycompatibility
5647
       \csname @glsstyle@#1\endcsname
5648
       \ifcsdef{@glscompstyle@#1}%
5649
       {\setglossentrycompatibility\csuse{@glscompstyle@#1}}%
5650
       {}%
5651
     }%
5652
5653 }
```

\newglossarystyle New glossary styles can be defined using:

 $\newglossarystyle\{\langle name \rangle\}\{\langle definition \rangle\}$ 

The \(\langle definition \rangle \) argument should redefine the glossary, \(\capgal glossary \) header, \glsgroupheading, \glossaryentryfield and \glsgroupskip (see subsection 1.18 for the definitions of predefined styles). Glossary styles should not redefine \glossarypreamble and \glossarypostamble, as the user should be able to switch between styles without affecting the pre- and postambles.

```
5654 \newcommand{\newglossarystyle}[2]{%
5655 \ifcsundef{@glsstyle@#1}%
5656 {%
5657 \expandafter\def\csname @glsstyle@#1\endcsname{#2}%
5658 }%
5659 {%
5660 \PackageError{glossaries}{Glossary style '#1' is already defined}{}%
5661 }%
5662}
```

\renewglossarystyle Code for this macro supplied by Marco Daniel.

```
5663 \newcommand{\renewglossarystyle}[2]{%
5664 \ifcsundef{@glsstyle@#1}%
5665 {%
5666 \PackageError{glossaries}{Glossary style '#1' isn't already defined}{}%
5667 }%
5668 {%
5669 \csdef{@glsstyle@#1}{#2}%
5670 }%
5671}
```

Glossary entries are encoded so that the second argument to \glossaryentryfield is always specified as \glsnamefont{\( name \)}. This allows the user to change the font used to display the name term without having to redefine \glossaryentryfield. The default uses the surrounding font, so in the list type styles (which place the name in the optional argument to \item) the name will appear in bold.

\glsnamefont

```
5672 \newcommand*{\glsnamefont}[1]{#1}
```

Each glossary entry has an associated number list (usually page numbers) that indicate where in the document the entry has been used. The format for these number lists can be changed using the format key in commands like \glslink. The default format is given by \glshypernumber. This takes a single argument which may be a single number, a number range or a number list. The number ranges are delimited with \delimR, the number lists are delimited with \delimN.

If the document doesn't have hyperlinks, the numbers can be displayed just as they are, but if the document supports hyperlinks, the numbers should link to the relevant location. This means extracting the individual numbers from the list or ranges. The package does this with the \hyperpage command, but this is encoded for comma and dash delimiters and only for the page counter, but this code needs to be more general. So I have adapted the code used in the package.

```
\glshypernumber
                 5673 \ifcsundef{hyperlink}%
                 5674 {%
                 5675 \def\glshypernumber#1{#1}%
                 5676 }%
                 5677 {%
                 5678 \def\glshypernumber#1\\0glshypernumber#1\nohyperpage{}\\0nil}
                 5679 }
\@glshypernumber
                   This code was provided by Heiko Oberdiek to allow material to be attached to
                   the location.
                  5680 \def\@glshypernumber#1\nohyperpage#2#3\@nil{%
                  5681
                       \ifx\\#1\\%
                  5682
                       \else
                 5683
                         \@delimR#1\delimR\delimR\\%
                       \fi
                 5684
                       \ifx\\#2\\%
                  5685
                  5686
                       \else
                  5687
                         #2%
                       \fi
                  5688
                       \ifx\\#3\\%
                  5689
                       \else
                  5690
                  5691
                         \@glshypernumber#3\@nil
                       \fi
                 5692
                 5693 }
                   \@delimR displays a range of numbers for the counter whose name is given by
                   \@gls@counter (which must be set prior to using \glshypernumber).
        \@delimR
                 5694\def\delimR#1\delimR #2\delimR #3\{\%}
                 5695\ifx\\#2\\%
                 5696 \@delimN{#1}%
                 5697\else
                 5698 \@gls@numberlink{#1}\delimR\@gls@numberlink{#2}%
                 5699\fi}
                   \@delimN displays a list of individual numbers, instead of a range:
        \@delimN
```

```
5700 \def\@delimN#1{\@@delimN#1\delimN \delimN\\}
5701 \def\@@delimN#1\delimN #2\delimN#3\\{%
5702 \ifx\\#3\\%
5703 \@gls@numberlink{#1}%
5704 \else
5705 \@gls@numberlink{#1}\delimN\@gls@numberlink{#2}%
5706 \fi
5707 }
```

The following code is modified from hyperref's \HyInd@pagelink where the name of the counter being used is given by \@gls@counter.

```
5708 \def\@gls@numberlink#1{%
5709 \begingroup
5710 \toks@={}%
5711 \@gls@removespaces#1 \@nil
5712 \endgroup}
5713 \def\@gls@removespaces#1 #2\@nil{%
5714 \toks@=\expandafter{\the\toks@#1}%
5715 \ifx\\#2\\%
      \left( \frac{x}{\theta \right)}%
5716
      \ifx\x\empty
5717
5718
      \else
         \hyperlink{\glsentrycounter\@glo@counterprefix\the\toks@}%
5719
                    {\theta}_{\t}
5720
      \fi
5721
5722 \else
5723
      \@gls@ReturnAfterFi{%
         \@gls@removespaces#2\@nil
5724
5725
      }%
5726 \fi
5727 }
5728\long\def\@gls@ReturnAfterFi#1\fi{\fi#1}
```

The following commands will switch to the appropriate font, and create a hyperlink, if hyperlinks are supported. If hyperlinks are not supported, they will just display their argument in the appropriate font.

## 1.16 Acronyms

\oldacronym

```
\oldsymbol{abel} \ \oldsymbol{aberv} \ \cite{aberv} \ \cite{aber
```

This emulates the way the old package defined acronyms. It is equivalent to  $\mbox{newacronym}[\langle key\text{-}val\ list\rangle]\{\langle label\rangle\}\{\langle abbrv\rangle\}\{\langle long\rangle\}$  and it additionally defines the command  $\langle label\rangle$  which is equivalent to  $\mbox{gls}\{\langle label\rangle\}$  (thus  $\langle label\rangle$  must only contain alphabetical characters). If  $\langle label\rangle$  is omitted,  $\langle abbrv\rangle$  is used. This only emulates the syntax of the old package. The way the acronyms appear in the list of acronyms is determined by the definition of  $\mbox{newacronym}$  and the glossary style.

Note that  $\langle label \rangle$  can't have an optional argument if the package is loaded. If hasn't been loaded then you can do  $\langle label \rangle [\langle insert \rangle]$  but you can't do  $\langle label \rangle [\langle key\text{-}val \ list \rangle]$ . For example if you define the acronym svm, then you can do  $\lceil svm['s]$  but you can't do  $\lceil svm[format=textbf]$ . If the package is loaded,  $\lceil svm['s]$  will appear as  $\lceil svm['s]$  which is unlikely to be the desired result. In this case, you will need to use  $\lceil svm[svm] \rceil$  so  $\lceil svm[svm] \rceil$ . Note that it is up to the user to load if desired.

```
5739 \newcommand{\oldacronym}[4][\gls@label]{%
     \def\gls@label{#2}%
5741
     \newacronym[#4]{#1}{#2}{#3}%
     \ifcsundef{xspace}%
5742
     {%
5743
       \expandafter\edef\csname#1\endcsname{%
5744
          \noexpand\@ifstar{\noexpand\Gls{#1}}{\noexpand\gls{#1}}%
5745
       }%
5746
5747
     }%
5748
        \expandafter\edef\csname#1\endcsname{%
5749
          \noexpand\@ifstar{\noexpand\Gls{#1}\noexpand\xspace}{%
5750
5751
          \noexpand\gls{#1}\noexpand\xspace}%
       }%
5752
5753
     }%
5754 }
```

# $\newacronym[\langle key-val\ list\rangle] \{\langle label\rangle\} \{\langle abbrev\rangle\} \{\langle long\rangle\}$

This is a quick way of defining acronyms, using \newglossaryentry with the appropriate values. It sets the glossary type to \acronymtype which will be acronym if the package option acronym has been used, otherwise it will be the default glossary. Since \newacronym merely calls \newglossaryentry, the acronym is treated like any other glossary entry.

If you prefer a different format, you can redefine \newacronym as required. The optional argument can be used to override any of the settings.

This is just a stub. It's redefined by commands like \SetDefaultAcronymStyle.

```
\newacronym
```

```
5755 \newcommand{\newacronym}[4][]{}
```

Set up some convenient short cuts. These need to be changed if \newacronym is changed (or if the description key is changed).

\acrpluralsuffix

Plural suffix used by \newacronym. This just defaults to \glspluralsuffix but is changed to include \textup if the smallcaps option is used, so that the suffix doesn't appear in small caps as it doesn't look right. For example, ABCS looks as though the "s" is part of the acronym, but ABCs looks as though the "s" is a plural suffix. Since the entire text abcs is set in \textsc, \textup is need to cancel it out.

```
5756 \newcommand*{\acrpluralsuffix}{\glspluralsuffix}
```

If garamondx has been loaded, need to use \textulc instead of \textup.

```
\glstextup
```

```
5757 \newrobustcmd*{\glstextup}[1]{\ifdef\textulc{\textulc{\#1}}}{\textup{\#1}}}
```

The following are defined for compatibility with version 2.07 and earlier.

```
\glsshortkey
```

5758 \newcommand\*{\glsshortkey}{short}

# \glsshortpluralkey

5759 \newcommand\*{\glsshortpluralkey}{shortplural}

# \glslongkey

5760 \newcommand\*{\glslongkey}{long}

## \glslongpluralkey

5761 \newcommand\*{\glslongpluralkey}{longplural}

## \acrfull Full form of the acronym.

```
5762 \newrobustcmd*{\acrfull}{%
5763 \@ifstar\s@acrfull\ns@acrfull
5764}
```

```
5765 \newcommand*\s@acrfull[2][]{%
                                                5766 \new@ifnextchar[{\@acrfull{hyper=false,#1}{#2}}%
                                                5767
                                                                                                       {\c {\c c} {\c
                                                5768 }
                                                5769 \newcommand*\ns@acrfull[2][]{%
                                                             \new@ifnextchar[{\@acrfull{#1}{#2}}%
                                                5770
                                                                                                       {\@acrfull{#1}{#2}[]}%
                                                5771
                                                5772 }
                       \@acrfull Low-level macro:
                                                5773 \def\@acrfull#1#2[#3]{%
                                                    Make it easier for acronym styles to change this:
                                                5774 \acrfullfmt{#1}{#2}{#3}%
                                                5775 }
                                                         Using \acrlinkfullformat and \acrfullformat is now deprecated as it
                                                    can cause complications with the first letter upper case variants, but the pack-
                                                    age needs to provide backward compatibility support.
                  \acrfullfmt No case change full format.
                                                5776 \newcommand*{\acrfullfmt}[3]{%
                                                             5778}
\acrlinkfullformat Format for full links like \acrfull. Syntax: \acrlinkfullformat{\langle long
                                                    cs\}{\langle short cs\}{\langle options\}{\langle label\}{\langle insert\}}
                                                5779 \newcommand{\acrlinkfullformat}[5]{%
                                                5780 \acrfullformat{#1{#3}{#4}[#5]}{#2{#3}{#4}[]}%
                                                5781 }
          \acrfullformat Default full form is \langle long \rangle (\langle short \rangle).
                                                5782 \newcommand{\acrfullformat}[2]{#1\space(#2)}
                                                         Default format for full acronym
                          \Acrfull
                                                5783 \newrobustcmd*{\Acrfull}{%
                                                            \@ifstar\s@Acrfull\ns@Acrfull
                                                5784
                                                5785 }
                                                5786 \newcommand*\s@Acrfull[2][]{%
                                                             \new@ifnextchar[{\@Acrfull{hyper=false,#1}{#2}}%
                                                5787
                                                                                                       {\c {\c Mcrfull {hyper=false, #1}{#2}[]}}
                                                5788
                                                5789 }
                                                5790 \newcommand*\ns@Acrfull[2][]{%
                                                             \new@ifnextchar[{\@Acrfull{#1}{#2}}%
                                                5791
                                                                                                      {\@Acrfull{#1}{#2}[]}%
                                                5792
                                                5793 }
```

```
Low-level macro:
           5794 \def\@Acrfull#1#2[#3]{%
             Make it easier for acronym styles to change this:
           5795
                 \Acrfullfmt{#1}{#2}{#3}%
           5796 }
\Acrfullfmt First letter upper case full format.
           5797 \newcommand*{\Acrfullfmt}[3]{%
           \label{lem:condition} $$ \acrlinkfullformat{\QAcrlong}{\Qacrshort}{\#1}{\#2}{\#3}% $$
           5799 }
   \ACRfull
            5800 \newrobustcmd*{\ACRfull}{%
                 \@ifstar\s@ACRfull\ns@ACRfull
           5802 }
            5803 \newcommand*\s@ACRfull[2][]{%
                 \new@ifnextchar[{\@ACRfull{hyper=false,#1}{#2}}%
                                  {\CACRfull{hyper=false,#1}{\#2}[]}%
           5805
           5806 }
           5807 \newcommand*\ns@ACRfull[2][]{%
                 \new@ifnextchar[{\@ACRfull{#1}{#2}}%
                                  {\@ACRfull{#1}{#2}[]}%
           5809
           5810 }
             Low-level macro:
           5811 \def\@ACRfull#1#2[#3]{%
             Make it easier for acronym styles to change this:
                 \ACRfullfmt{#1}{#2}{#3}%
            5812
           5813 }
\ACRfullfmt All upper case full format.
            5814 \newcommand*{\ACRfullfmt}[3]{%
           5816}
               Plural:
\acrfullpl
           5817 \newrobustcmd*{\acrfullpl}{%
                 \@ifstar\s@acrfullpl\ns@acrfullpl
           5819}
           5820 \newcommand*\s@acrfullpl[2][]{%
                 \new@ifnextchar[{\@acrfullpl{hyper=false,#1}{#2}}%
           5822
                                  {\@acrfullpl{hyper=false,#1}{#2}[]}%
           5823 }
           5824 \newcommand*\ns@acrfullpl[2][]{%
```

```
5825
                 \new@ifnextchar[{\@acrfullpl{#1}{#2}}%
                                 {\@acrfullpl{#1}{#2}[]}%
            5826
            5827 }
              Low-level macro:
            5828 \def\@acrfullpl#1#2[#3]{%
              Make it easier for acronym styles to change this:
                 \acrfullplfmt{#1}{#2}{#3}%
            5830 }
\acrfullplfmt No case change plural full format.
            5831 \newcommand*{\acrfullplfmt}[3]{%
                 5833 }
  \Acrfullpl
            5834 \newrobustcmd*{\Acrfullpl}{%
                 \@ifstar\s@Acrfullpl\ns@Acrfullpl
            5836 }
            5837 \newcommand*\s@Acrfullpl[2][]{%
                 \new@ifnextchar[{\@Acrfullpl{hyper=false,#1}{#2}}%
            5838
                                 {\c {\c Acrfullpl{hyper=false,#1}{#2}[]}}
            5839
            5840 }
            5841 \newcommand*\ns@Acrfullpl[2][]{%
                 5842
            5843
                                {\@Acrfullpl{#1}{#2}[]}%
            5844 }
              Low-level macro:
            5845 \def\@Acrfullpl#1#2[#3]{%
              Make it easier for acronym styles to change this:
                 \Acrfullplfmt{#1}{#2}{#3}%
            5846
            5847 }
\Acrfullplfmt First letter upper case plural full format.
            5848 \newcommand*{\Acrfullplfmt}[3]{%
                 5850 }
  \ACRfullpl
            5851 \newrobustcmd*{\ACRfullpl}{%
                 \@ifstar\s@ACRfullpl\ns@ACRfullpl
            5853 }
            5854 \newcommand*\s@ACRfullp1[2][]{%
                 \new@ifnextchar[{\@ACRfullpl{hyper=false,#1}{#2}}%
            5856
                                 {\@ACRfullpl{hyper=false,#1}{#2}[]}%
```

```
5857}
                   5858 \newcommand*\ns@ACRfullpl[2][]{%
                         \new@ifnextchar[{\@ACRfullpl{#1}{#2}}%
                                           {\@ACRfullpl{#1}{#2}[]}%
                   5860
                   5861 }
                     Low-level macro:
                   5862 \def\@ACRfullpl#1#2[#3]{%
                     Make it easier for acronym styles to change this:
                         \ACRfullplfmt{#1}{#2}{#3}%
                   5864 }
    \ACRfullplfmt All upper case plural full format.
                   5865 \newcommand*{\ACRfullplfmt}[3]{%
                         \acrlinkfullformat{\@ACRlongpl}{\@ACRshortpl}{#1}{#2}{#3}%
                   5867 }
                     1.17 Predefined acronym styles
                   This is only used with the additional acronym styles:
                   5868 \newcommand{\acronymfont}[1]{#1}
                   This is only used with the additional acronym styles:
\firstacronymfont
                   5869 \newcommand{\firstacronymfont}[1]{\acronymfont{#1}}
                    The styles that allow an additional description use \acrnameformat\{\langle short\rangle\}\{\langle long\rangle\}
   \acrnameformat
                     to determine what information is displayed in the name.
                   5870 \mbox{newcommand} {\acrnameformat} [2] {\acronymfont{#1}}
                       Define some tokens used by \newacronym:
   \glskeylisttok
                   5871 \newtoks\glskeylisttok
     \glslabeltok
                   5872 \newtoks\glslabeltok
     \glsshorttok
                   5873 \newtoks\glsshorttok
      \glslongtok
                   5874 \newtoks\glslongtok
  \newacronymhook Provide a hook for \newacronym:
                   5875 \newcommand*{\newacronymhook}{}
```

etGenericNewAcronym New improved version of setting the acronym style.

```
5876 \newcommand*{\SetGenericNewAcronym}{%
     \renewcommand{\newacronym}[4][]{%
       \ifdefempty{\@glsacronymlists}%
5878
       {%
5879
          \def\@glo@type{\acronymtype}%
5880
          \setkeys{glossentry}{##1}%
5881
5882
          \DeclareAcronymList{\@glo@type}%
5883
       }%
       {}%
5884
       \glskeylisttok{##1}%
5885
       \glslabeltok{##2}%
5886
       \glsshorttok{##3}%
5887
       \glslongtok{##4}%
5888
       \newacronymhook
5889
        \protected@edef\@do@newglossaryentry{%
5890
          \noexpand\newglossaryentry{\the\glslabeltok}%
5891
5892
          {%
5893
            type=\acronymtype,%
           name={\expandonce{\acronymentry{##2}}},%
5894
            sort={\acronymsort{\the\glsshorttok}{\the\glslongtok}},%
5895
            text={\the\glsshorttok},%
5896
            short={\the\glsshorttok},%
5897
5898
            shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
            long={\the\glslongtok},%
5899
            longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
5900
            \GenericAcronymFields,%
5901
            \the\glskeylisttok
5902
5903
         }%
       }%
5904
       \@do@newglossaryentry
5905
5906
 Make sure that \acrfull etc reflects the new style:
     \renewcommand*{\acrfullfmt}[3]{%
5907
       \glslink[##1]{##2}{\genacrfullformat{##2}{##3}}}%
5908
     \renewcommand*{\Acrfullfmt}[3]{%
5909
       \glslink[##1]{##2}{\Genacrfullformat{##2}{##3}}}%
5910
     \renewcommand*{\ACRfullfmt}[3]{%
5911
       \glslink[##1]{##2}{%
5912
5913
          \mfirstucMakeUppercase{\genacrfullformat{##2}{##3}}}}%
     \renewcommand*{\acrfullplfmt}[3]{%
5914
       \glslink[##1]{##2}{\genplacrfullformat{##2}{##3}}}%
5915
5916
     \renewcommand*{\Acrfullplfmt}[3]{%
       \glslink[##1]{##2}{\Genplacrfullformat{##2}{##3}}}%
5917
     \renewcommand*{\ACRfullplfmt}[3]{%
5918
        \glslink[##1]{##2}{%
5919
          \mfirstucMakeUppercase{\genplacrfullformat{##2}{##3}}}}%
5920
```

Make sure that \glsentryfull etc reflects the new style:

```
5921 \renewcommand*{\glsentryfull}[1]{\genacrfullformat{##1}{}}%
5922 \renewcommand*{\Glsentryfull}[1]{\Genacrfullformat{##1}{}}%
5923 \renewcommand*{\glsentryfullpl}[1]{\genplacrfullformat{##1}{}}%
5924 \renewcommand*{\Glsentryfullpl}[1]{\Genplacrfullformat{##1}{}}%
5925}
```

enericAcronymFields Fields used by \SetGenericNewAcronym that can be changed by the acronym style.

5926\newcommand\*{\GenericAcronymFields}{description={\the\glslongtok}}

\acronymentry

\acronymentry{\label\rangle}

Display style for the name field in the list of acronyms.

5927\newcommand\*{\acronymentry}[1]{\acronymfont{\glsentryshort{#1}}}

\acronymsort

 $\acronymsort{\langle short \rangle}{\langle long \rangle}$ 

Default sort format for acronyms.

5928 \newcommand\*{\acronymsort}[2]{#1}

\setacronymstyle

\setacronymstyle{\langle style name \rangle}

```
5929 \newcommand*{\setacronymstyle}[1]{%
5930
      \ifcsundef{@glsacr@dispstyle@#1}
5931
      {%
        \PackageError{glossaries}{Undefined acronym style '#1'}{}%
5932
     }%
5933
      {%
5934
        \ifdefempty{\@glsacronymlists}%
5935
5936
          \DeclareAcronymList{\acronymtype}%
5937
5938
5939
        {}%
        \SetGenericNewAcronym
5940
        \GlsUseAcrStyleDefs{#1}%
5941
        \@for\@gls@type:=\@glsacronymlists\do{%
5942
          \defglsentryfmt[\@gls@type]{\GlsUseAcrEntryDispStyle{#1}}%
5943
       }%
5944
     }%
5945
5946 }
```

\newacronymstyle

```
Defines a new acronym style called (style name).
                                                  5947 \newcommand*{\newacronymstyle}[3]{%
                                                  5948
                                                                \ifcsdef{@glsacr@dispstyle@#1}%
                                                  5949
                                                                {%
                                                                     \PackageError{glossaries}{Acronym style '#1' already exists}{}%
                                                  5950
                                                                }%
                                                  5951
                                                                {%
                                                  5952
                                                  5953
                                                                     \csdef{@glsacr@dispstyle@#1}{#2}%
                                                  5954
                                                                     \csdef{@glsacr@styledefs@#1}{#3}%
                                                               }%
                                                  5955
                                                  5956 }
                                                    Redefines the given acronym style.
 \renewacronymstyle
                                                  5957 \newcommand*{\renewacronymstyle}[3]{%
                                                                \ifcsdef{@glsacr@dispstyle@#1}%
                                                  5958
                                                  5959
                                                                {%
                                                                      \csdef{@glsacr@dispstyle@#1}{#2}%
                                                  5960
                                                                     \csdef{@glsacr@styledefs@#1}{#3}%
                                                  5961
                                                                }%
                                                  5962
                                                  5963
                                                                {%
                                                  5964
                                                                     \PackageError{glossaries}{Acronym style '#1' doesn't exist}{}%
                                                  5965
                                                               }%
                                                  5966 }
seAcrEntryDispStyle
                                                  5967 \newcommand*{\GlsUseAcrEntryDispStyle}[1]{\csuse{@glsacr@dispstyle@#1}}
\GlsUseAcrStyleDefs
                                                  5968 \newcommand*{\GlsUseAcrStyleDefs}[1]{\csuse{@glsacr@styledefs@#1}}
                                                           Predefined acronym styles:
                      long-short \langle long \rangle (\langle short \rangle) acronym style.
                                                  5969 \newacronymstyle{long-short}%
                                                  5970 {%
                                                      Check for long form in case this is a mixed glossary.
                                                                \label{$\{\glsgenacfmt\}{\glsgenentryfmt}$\% } % The property of the property o
                                                  5971
                                                  5972 }%
                                                  5973 {%
                                                                \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
                                                  5974
                                                                \renewcommand*{\genacrfullformat}[2]{%
                                                  5975
                                                  5976
                                                                   \glsentrylong{##1}##2\space
                                                                  (\protect\firstacronymfont{\glsentryshort{##1}})%
                                                  5977
                                                  5978
                                                                \renewcommand*{\Genacrfullformat}[2]{%
                                                  5979
                                                                  \Glsentrylong{##1}##2\space
                                                                   (\protect\firstacronymfont{\glsentryshort{##1}})%
                                                  5981
                                                  5982
                                                               ጉ%
```

```
\renewcommand*{\genplacrfullformat}[2]{%
               5983
                      \glsentrylongpl{##1}##2\space
               5984
                      (\protect\firstacronymfont{\glsentryshortpl{##1}})%
               5985
               5986
                     \renewcommand*{\Genplacrfullformat}[2]{%
               5987
                     \Glsentrylongpl{##1}##2\space
               5988
                      (\protect\firstacronymfont{\glsentryshortpl{##1}})%
               5989
               5990
                     \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}
               5991
                     \renewcommand*{\acronymsort}[2]{##1}%
               5992
                     \renewcommand*{\acronymfont}[1]{##1}%
               5993
               5994
                     \renewcommand*{\firstacronymfont}[1]{\acronymfont{##1}}%
               5995
                     \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
               5996 }
   short-long \langle short \rangle (\langle long \rangle) acronym style.
               5997 \newacronymstyle{short-long}%
              5998 {%
                Check for long form in case this is a mixed glossary.
               5999
                    \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
               6000 }%
               6001 {%
               6002
                    \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
                    \renewcommand*{\genacrfullformat}[2]{%
               6003
                     \protect\firstacronymfont{\glsentryshort{##1}}##2\space
               6004
                      (\glsentrylong{##1})%
               6005
               6006
                    }%
                     \renewcommand*{\Genacrfullformat}[2]{%
               6007
                      \protect\firstacronymfont{\Glsentryshort{##1}}##2\space
               6008
               6009
                      (\glsentrylong{##1})%
               6010
                     \renewcommand*{\genplacrfullformat}[2]{%
               6011
               6012
                     \protect\firstacronymfont{\glsentryshortpl{##1}}##2\space
               6013
                      (\glsentrylongpl{##1})%
               6014
                    \renewcommand*{\Genplacrfullformat}[2]{%
               6015
                      \protect\firstacronymfont{\Glsentryshortpl{##1}}##2\space
               6016
                      (\glsentrylongpl{##1})%
               6017
               6018
                    \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}%
               6019
                     \renewcommand*{\acronymsort}[2]{##1}%
               6020
               6021
                     \renewcommand*{\acronymfont}[1]{##1}%
                    \verb|\renewcommand*{\firstacronymfont}[1]{\acronymfont{##1}}||
               6022
               6023
                    \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
              6024 }
long-sc-short \langle long \rangle (\textsc{\langle short \rangle}) acronym style.
```

6025 \newacronymstyle{long-sc-short}%

```
6026 {%
                        \GlsUseAcrEntryDispStyle{long-short}%
                  6027
                  6028 }%
                  6029 {%
                        \GlsUseAcrStyleDefs{long-short}%
                  6030
                        \renewcommand{\acronymfont}[1]{\textsc{##1}}%
                  6031
                        \renewcommand*{\acrpluralsuffix}{\glstextup{\glspluralsuffix}}%
                  6032
                  6033 }
  long-sm-short \langle long \rangle (\textsmaller{\langle short \rangle}) acronym style.
                  6034 \newacronymstyle{long-sm-short}%
                  6035 {%
                  6036
                        \GlsUseAcrEntryDispStyle{long-short}%
                  6037 }%
                  6038 {%
                        \GlsUseAcrStyleDefs{long-short}%
                  6039
                        \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%
                  6040
                        \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
                  6041
                  6042 }
  sc-short-long \langle short \rangle (\textsc{\langle long \rangle}) acronym style.
                  6043 \newacronymstyle{sc-short-long}%
                  6044 {%
                  6045
                        \GlsUseAcrEntryDispStyle{short-long}%
                  6046 }%
                  6047 {%
                        \GlsUseAcrStyleDefs{short-long}%
                  6048
                        \renewcommand{\acronymfont}[1]{\textsc{##1}}%
                  6049
                  6050
                        \renewcommand*{\acrpluralsuffix}{\glstextup{\glspluralsuffix}}%
                  6051 }
  sm-short-long \langle short \rangle (\textsmaller{\langle long \rangle}) acronym style.
                  6052 \newacronymstyle{sm-short-long}%
                  6053 {%
                        \GlsUseAcrEntryDispStyle{short-long}%
                  6054
                  6055 }%
                  6056 {%
                  6057
                       \GlsUseAcrStyleDefs{short-long}%
                       \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%
                  6058
                        \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
                  6060 }
long-short-desc \langle long \rangle (\{\langle short \rangle\}) acronym style that has an accompanying description (which
                   the user needs to supply).
                  6061 \newacronymstyle{long-short-desc}%
                  6062 { %
                  6063 \GlsUseAcrEntryDispStyle{long-short}%
                  6064 }%
                  6065 {%
```

```
\GlsUseAcrStyleDefs{long-short}%
                           \renewcommand*{\GenericAcronymFields}{}%
                     6067
                           \renewcommand*{\acronymsort}[2]{##2}%
                     6068
                           \renewcommand*{\acronymentry}[1]{%
                     6069
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6070
                     6071 }
                      \langle long \rangle (\textsc{\langle short \rangle}) acronym style that has an accompanying descrip-
long-sc-short-desc
                      tion (which the user needs to supply).
                     6072 \newacronymstyle{long-sc-short-desc}%
                           \GlsUseAcrEntryDispStyle{long-sc-short}%
                     6074
                     6075 }%
                     6076 {%
                           \GlsUseAcrStyleDefs{long-sc-short}%
                     6077
                           \renewcommand*{\GenericAcronymFields}{}%
                     6078
                     6079
                           \renewcommand*{\acronymsort}[2]{##2}%
                     6080
                           \renewcommand*{\acronymentry}[1]{%
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6081
                     6082 }
                      \langle long \rangle (\textsmaller{\langle short \rangle}) acronym style that has an accompanying de-
long-sm-short-desc
                      scription (which the user needs to supply).
                     6083 \newacronymstyle{long-sm-short-desc}%
                     6084 {%
                           \GlsUseAcrEntryDispStyle{long-sm-short}%
                     6085
                     6086 }%
                     6087 {%
                           \GlsUseAcrStyleDefs{long-sm-short}%
                     6088
                           \renewcommand*{\GenericAcronymFields}{}%
                     6089
                           \renewcommand*{\acronymsort}[2]{##2}%
                     6090
                     6091
                           \renewcommand*{\acronymentry}[1]{%
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6092
                     6093 }
                      \langle short \rangle (\{\langle long \rangle\}) acronym style that has an accompanying description (which
   short-long-desc
                      the user needs to supply).
                     6094 \newacronymstyle{short-long-desc}%
                     6095 {%
                           \GlsUseAcrEntryDispStyle{short-long}%
                     6096
                     6097 }%
                     6098 {%
                           \GlsUseAcrStyleDefs{short-long}%
                     6099
                           \renewcommand*{\GenericAcronymFields}{}%
                     6100
                           \renewcommand*{\acronymsort}[2]{##2}%
                           \renewcommand*{\acronymentry}[1]{%
                     6102
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6103
                     6104 }
```

6066

```
tion (which the user needs to supply).
                     6105 \newacronymstyle{sc-short-long-desc}%
                     6106 {%
                           \GlsUseAcrEntryDispStyle{sc-short-long}%
                     6107
                     6108 }%
                     6109 {%
                           \GlsUseAcrStyleDefs{sc-short-long}%
                     6110
                           \renewcommand*{\GenericAcronymFields}{}%
                     6111
                           \renewcommand*{\acronymsort}[2]{##2}%
                           \renewcommand*{\acronymentry}[1]{%
                     6113
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6114
                     6115 }
                      \langle long \rangle (\textsmaller{\langle short \rangle}) acronym style that has an accompanying de-
sm-short-long-desc
                      scription (which the user needs to supply).
                     6116 \newacronymstyle{sm-short-long-desc}%
                     6117 {%
                           \GlsUseAcrEntryDispStyle{sm-short-long}%
                     6118
                     6119 }%
                     6120 {%
                           \GlsUseAcrStyleDefs{sm-short-long}%
                     6121
                           \renewcommand*{\GenericAcronymFields}{}%
                     6122
                           \renewcommand*{\acronymsort}[2]{##2}%
                     6123
                           \renewcommand*{\acronymentry}[1]{%
                     6124
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6125
                     6126 }
                 dua \langle long \rangle only acronym style.
                     6127 \newacronymstyle{dua}%
                     6128 {%
                      Check for long form in case this is a mixed glossary.
                           \ifdefempty\glscustomtext
                     6129
                     6130
                             \ifglshaslong{\glslabel}%
                     6131
                     6132
                               \glsifplural
                     6133
                     6134
                      Plural form:
                     6135
                                  \glscapscase
                                  {%
                     6136
                      Plural form, don't adjust case:
                     6137
                                    \glsentrylongpl{\glslabel}\glsinsert
                                  }%
                     6138
                                  {%
                     6139
```

 $\langle long \rangle$  (\textsc{ $\langle short \rangle$ }) acronym style that has an accompanying descrip-

sc-short-long-desc

Plural form, make first letter upper case:

```
6140
              \Glsentrylongpl{\glslabel}\glsinsert
            }%
6141
6142
            {%
 Plural form, all caps:
              \mfirstucMakeUppercase
6143
6144
                 {\glsentrylongpl{\glslabel}\glsinsert}%
            }%
6145
          }%
6146
          {%
6147
 Singular form
6148
            \glscapscase
            {%
6149
 Singular form, don't adjust case:
               \glsentrylong{\glslabel}\glsinsert
6150
            }%
6151
            {%
6152
 Subsequent singular form, make first letter upper case:
6153
              \verb|\Glsentrylong{\glslabel}\glsinsert|
            }%
6154
            {%
6155
 Subsequent singular form, all caps:
              \mfirstucMakeUppercase
6156
                 {\glsentrylong{\glslabel}\glsinsert}%
6157
            }%
6158
          }%
6159
        }%
6160
6161
        {%
 Not an acronym:
6162
          \glsgenentryfmt
6163
        }%
6164
     }%
      {\glscustomtext\glsinsert}%
6165
6166 }%
6167 {%
      \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
6168
      \renewcommand*{\acrfullfmt}[3]{%
6169
        \glslink[##1]{##2}{\glsentrylong{##2}##3\space}
6170
          (\acronymfont{\glsentryshort{##2}})}}%
6171
      \renewcommand*{\Acrfullfmt}[3]{%
6172
        \glslink[##1]{##2}{\Glsentrylong{##2}##3\space}
6173
6174
          (\acronymfont{\glsentryshort{##2}})}}%
      \renewcommand*{\ACRfullfmt}[3]{%
6175
        \glslink[##1]{##2}{%
6176
          \mfirstucMakeUppercase{\glsentrylong{##2}##3\space
6177
          (\acronymfont{\glsentryshort{##2}})}}}%
6178
```

```
\renewcommand*{\acrfullplfmt}[3]{%
         6179
                \glslink[##1]{##2}{\glsentrylongpl{##2}##3\space
         6180
                   (\acronymfont{\glsentryshortpl{##2}})}}%
         6181
              \renewcommand*{\Acrfullplfmt}[3]{%
         6182
                \glslink[##1]{##2}{\Glsentrylongpl{##2}##3\space
         6183
                   (\acronymfont{\glsentryshortpl{##2}})}}%
         6184
              \renewcommand*{\ACRfullplfmt}[3]{%
         6185
                \glslink[##1]{##2}{%
         6186
                   \mfirstucMakeUppercase{\glsentrylongpl{##2}##3\space
         6187
                   (\acronymfont{\glsentryshortp1{##2}})}}}%
         6188
              \renewcommand*{\glsentryfull}[1]{%
         6189
                \glsentrylong{##1}\space(\acronymfont{\glsentryshort{##1}})%
         6190
         6191
              \renewcommand*{\Glsentryfull}[1]{%
         6192
                \Glsentrylong{##1}\space(\acronymfont{\glsentryshort{##1}})%
         6193
         6194
         6195
              \renewcommand*{\glsentryfullpl}[1]{%
                \glsentrylongpl{##1}\space(\acronymfont{\glsentryshortpl{##1}})%
         6196
         6197
              \renewcommand*{\Glsentryfullpl}[1]{%
         6198
                6199
         6200
              \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}%
         6201
              \renewcommand*{\acronymsort}[2]{##1}%
         6202
              \renewcommand*{\acronymfont}[1]{##1}%
         6203
              \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
         6204
         6205 }
dua-desc \(\langle\) only acronym style with user-supplied description.
         6206 \newacronymstyle{dua-desc}%
         6207 {%
         6208 \GlsUseAcrEntryDispStyle{dua}%
         6209 }%
         6210 {%
              \GlsUseAcrStyleDefs{dua}%
         6211
              \renewcommand*{\GenericAcronymFields}{}%
         6212
              \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentrylong{##1}}}%
         6213
              \renewcommand*{\acronymsort}[2]{##2}%
         6215 }%
footnote \langle short \rangle \setminus footnote \{\langle long \rangle\} acronym style.
         6216 \newacronymstyle{footnote}%
         6217 {%
          Check for long form in case this is a mixed glossary.
         \label{locality} $$ ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}% $$
         6219 }%
         6220 {%
              \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
```

```
Need to ensure hyperlinks are switched off on first use:
```

```
\glshyperfirstfalse
6222
     \renewcommand*{\genacrfullformat}[2]{%
6223
      \protect\firstacronymfont{\glsentryshort{##1}}##2%
6224
      \protect\footnote{\glsentrylong{##1}}%
6225
6226
     \renewcommand*{\Genacrfullformat}[2]{%
6227
6228
      \firstacronymfont{\Glsentryshort{##1}}##2%
6229
      \protect\footnote{\glsentrylong{##1}}%
6230
     \renewcommand*{\genplacrfullformat}[2]{%
6231
      \protect\firstacronymfont{\glsentryshortpl{##1}}##2%
6232
6233
      \protect\footnote{\glsentrylongpl{##1}}%
6234
     \renewcommand*{\Genplacrfullformat}[2]{%
6235
      \protect\firstacronymfont{\Glsentryshortpl{##1}}##2%
6236
6237
      \protect\footnote{\glsentrylongpl{##1}}%
6238
     ጉ%
6239
     \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}%
     \renewcommand*{\acronymsort}[2]{##1}%
6240
6241
     \renewcommand*{\acronymfont}[1]{##1}%
     \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
6242
 Don't use footnotes for \acrfull:
6243
     \renewcommand*{\acrfullfmt}[3]{%
       \glslink[##1]{##2}{\acronymfont{\glsentryshort{##2}}##3\space
6244
6245
          (\glsentrylong{##2})}}%
     \renewcommand*{\Acrfullfmt}[3]{%
6246
       \glslink[##1]{##2}{\acronymfont{\Glsentryshort{##2}}##3\space
6247
6248
          (\glsentrylong{##2})}}%
     \renewcommand*{\ACRfullfmt}[3]{%
6249
       \glslink[##1]{##2}{%
6250
          \mfirstucMakeUppercase{\acronymfont{\glsentryshort{##2}}##3\space
6251
          (\glsentrylong{##2})}}}%
6252
     \renewcommand*{\acrfullplfmt}[3]{%
6253
       \glslink[##1]{##2}{\acronymfont{\glsentryshortpl{##2}}##3\space
6254
6255
          (\glsentrylongpl{##2})}}%
     \renewcommand*{\Acrfullplfmt}[3]{%
6256
       \glslink[##1]{\##2}{\acronymfont{\Glsentryshortpl{##2}}\##3\space
6257
6258
          (\glsentrylongpl{##2})}}%
     \renewcommand*{\ACRfullplfmt}[3]{%
6259
       \glslink[##1]{##2}{%
6260
          \mfirstucMakeUppercase{\acronymfont{\glsentryshortpl{##2}}##3\space
6261
6262
          (\glsentrylongpl{##2})}}}%
 Similarly for \glsentryfull etc:
     \renewcommand*{\glsentryfull}[1]{%
6263
        \acronymfont{\glsentryshort{##1}}\space(\glsentrylong{##1})}%
6264
     \renewcommand*{\Glsentryfull}[1]{%
6265
        \acronymfont{\Glsentryshort{##1}}\space(\glsentrylong{##1})}%
6266
```

```
\renewcommand*{\glsentryfullpl}[1]{%
                   6267
                            \acronymfont{\glsentryshortpl{##1}}\space(\glsentrylongpl{##1})}%
                   6268
                         \renewcommand*{\Glsentryfullpl}[1]{%
                   6269
                            \acronymfont{\Glsentryshortpl{##1}}\space(\glsentrylongpl{##1})}%
                   6270
                   6271 }
     footnote-sc \textsc{\langle short \rangle}\textsc{\langle short \rangle}\ acronym style.
                   6272 \newacronymstyle{footnote-sc}%
                   6273 {%
                   6274
                        \GlsUseAcrEntryDispStyle{footnote}%
                   6275 }%
                   6276 {%
                   6277
                         \GlsUseAcrStyleDefs{footnote}%
                        \renewcommand{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}
                   6278
                         \renewcommand{\acronymfont}[1]{\textsc{##1}}%
                   6279
                         \renewcommand*{\acrpluralsuffix}{\glstextup{\glspluralsuffix}}%
                   6280
                   6281 }%
     footnote-sm \textsmaller\{\langle short \rangle\}\footnote\{\langle long \rangle\} acronym style.
                  6282 \newacronymstyle{footnote-sm}%
                   6283 {%
                   6284
                         \GlsUseAcrEntryDispStyle{footnote}%
                   6285 }%
                   6286 {%
                         \GlsUseAcrStyleDefs{footnote}%
                   6287
                         \renewcommand{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}
                   6288
                         \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%
                         \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
                   6290
                   6291 }%
                    \langle short \rangle \setminus footnote \{\langle long \rangle\} acronym style that has an accompanying descrip-
   footnote-desc
                    tion (which the user needs to supply).
                   6292 \newacronymstyle{footnote-desc}%
                   6293 {%
                         \GlsUseAcrEntryDispStyle{footnote}%
                   6294
                   6295 }%
                   6296 {%
                         \GlsUseAcrStyleDefs{footnote}%
                   6297
                         \renewcommand*{\GenericAcronymFields}{}%
                   6298
                         \renewcommand*{\acronymsort}[2]{##2}%
                   6299
                   6300
                         \renewcommand*{\acronymentry}[1]{%
                   6301
                           \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                   6302 }
                   \text{textsc}(\langle short \rangle) \setminus \{cotnote(\langle long \rangle)\}\ acronym style that has an accompany-
footnote-sc-desc
                    ing description (which the user needs to supply).
                   6303 \newacronymstyle{footnote-sc-desc}%
                   6304 {%
```

```
6306 }%
                     6307 {%
                     6308
                          \GlsUseAcrStyleDefs{footnote-sc}%
                           \renewcommand*{\GenericAcronymFields}{}%
                           \renewcommand*{\acronymsort}[2]{##2}%
                     6310
                           \renewcommand*{\acronymentry}[1]{%
                     6311
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6312
                     6313 }
                      \textsmaller{\langle short \rangle}\footnote{\langle long \rangle} acronym style that has an accom-
  footnote-sm-desc
                      panying description (which the user needs to supply).
                     6314 \newacronymstyle{footnote-sm-desc}%
                     6315 {%
                     6316 \GlsUseAcrEntryDispStyle{footnote-sm}%
                     6317 }%
                     6318 {%
                          \GlsUseAcrStyleDefs{footnote-sm}%
                     6319
                     6320
                          \renewcommand*{\GenericAcronymFields}{}%
                     6321
                           \renewcommand*{\acronymsort}[2]{##2}%
                          \renewcommand*{\acronymentry}[1]{%
                     6322
                             \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
                     6323
                     6324 }
fineAcronymSynonyms
                     6325 \newcommand*{\DefineAcronymSynonyms}{%
                      Short form
                \acs
                     6326 \let\acs\acrshort
                      First letter uppercase short form
                \Acs
                          \let\Acs\Acrshort
                      Plural short form
               \acsp
                          \let\acsp\acrshortpl
                      First letter uppercase plural short form
              \Acsp
                          \let\Acsp\Acrshortpl
                      Long form
                \acl
                          \let\acl\acrlong
                     6330
```

\GlsUseAcrEntryDispStyle{footnote-sc}%

6305

```
Plural long form
\aclp
      6331 \let\aclp\acrlongpl
       First letter upper case long form
 \Acl
           \let\Acl\Acrlong
      6332
       First letter upper case plural long form
\Aclp
      6333 \let\Aclp\Acrlongpl
       Full form
 \acf
           \let\acf\acrfull
       Plural full form
\acfp
           \let\acfp\acrfullpl
       First letter upper case full form
 \Acf
           \let\Acf\Acrfull
      6336
       First letter upper case plural full form
\Acfp
          \let\Acfp\Acrfullpl
       Standard form
```

6338 \let\ac\gls

First upper case standard form

\Ac

6339  $\left( Ac\Gls \right)$ 

Standard plural form

\acp

6340 \let\acp\glspl

Standard first letter upper case plural form

\Acp

6341 \let\Acp\Glspl

```
6342 }
```

Define synonyms if required

```
6343 \ifglsacrshortcuts
6344 \DefineAcronymSynonyms
6345 \fi
```

These commands for setting the style are now deprecated but are kept for backward compatibility.

AcronymDisplayStyle

```
Sets the default acronym display style for given glossary.
```

efaultNewAcronymDef

Sets up the acronym definition for the default style. The information is provided by the tokens \glslabeltok, \glsshorttok, \glslongtok and \glskeylisttok.

```
6349 \newcommand*{\DefaultNewAcronymDef}{%
     \edef\@do@newglossaryentry{%
6350
        \noexpand\newglossaryentry{\the\glslabeltok}%
6351
       {%
6352
          type=\acronymtype,%
6353
         name={\the\glsshorttok},%
6354
         sort={\the\glsshorttok},%
6355
6356
         text={\the\glsshorttok},%
         first={\acrfullformat{\the\glslongtok}{\the\glsshorttok}},%
6357
         plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6358
         firstplural={\acrfullformat{\noexpand\expandonce\noexpand\@glo@longpl}%
6359
                                       {\noexpand\expandonce\noexpand\@glo@shortpl}},%
6360
          short={\the\glsshorttok},%
6361
          shortplural = \{ \the \glsshorttok \noexpand \acrplural suffix \}, \% 
6362
6363
         long={\the\glslongtok},%
          longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6364
6365
          description={\the\glslongtok},%
6366
          descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
```

# Remaining options specified by the user:

```
\the\glskeylisttok
6367
       }%
6368
     }%
6369
     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6370
6371
     \let\@org@gls@assign@plural\gls@assign@plural
     \let\@org@gls@assign@descplural\gls@assign@descplural
6372
     \def\gls@assign@firstpl##1##2{%
6373
       \@@gls@expand@field{##1}{firstpl}{##2}%
6374
6375
     \def\gls@assign@plural##1##2{%
6376
6377
       \@@gls@expand@field{##1}{plural}{##2}%
6378
     }%
```

```
\def\gls@assign@descplural##1##2{%
                    6379
                            \@@gls@expand@field{##1}{descplural}{##2}%
                    6380
                          }%
                    6381
                          \@do@newglossaryentry
                    6382
                          \let\gls@assign@firstpl\@org@gls@assign@firstpl
                    6383
                          \let\gls@assign@plural\@org@gls@assign@plural
                    6384
                          \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
                    6385
                    6386 }
                     Set up the default acronym style:
DefaultAcronymStyle
                    6387 \newcommand*{\SetDefaultAcronymStyle}{%
                      Set the display style:
                          \@for\@gls@type:=\@glsacronymlists\do{%
                    6388
                            \SetDefaultAcronymDisplayStyle{\@gls@type}%
                    6389
                    6390
                      Set up the definition of \newacronym:
                          \renewcommand{\newacronym}[4][]{%
                      If user is just using the main glossary and hasn't identified it as a list of
                      acronyms, then update. (This is done to ensure backwards compatibility with
                      versions prior to 2.04).
                            \ifx\@glsacronymlists\@empty
                    6392
                    6393
                               \def\@glo@type{\acronymtype}%
                               \setkeys{glossentry}{##1}%
                    6394
                               \DeclareAcronymList{\@glo@type}%
                    6395
                    6396
                               \SetDefaultAcronymDisplayStyle{\@glo@type}%
                    6397
                            \glskeylisttok{##1}%
                    6398
                            \glslabeltok{##2}%
                    6399
                    6400
                            \glsshorttok{##3}%
                            \glslongtok{##4}%
                    6401
                            \newacronymhook
                    6402
                    6403
                            \DefaultNewAcronymDef
                    6404
                          \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
                    6405
                    6406}
                     Used by the footnote acronym styles.
                    6407\newcommand*{\acrfootnote}[3]{\acrlinkfootnote{#1}{#2}{#3}}
  \acrlinkfootnote
                    6408 \newcommand*{\acrlinkfootnote}[3]{%
                          \footnote{\glslink[#1]{#2}{#3}}%
                    6410 }
\acrnolinkfootnote
                    6411 \newcommand*{\acrnolinkfootnote}[3]{%
                    6412 \footnote{#3}%
                    6413 }
```

AcronymDisplayStyle Sets the acronym display style for given glossary for the description and footnote combination.

```
6414 \newcommand*{\SetDescriptionFootnoteAcronymDisplayStyle}[1]{%
      \defglsentryfmt[#1]{%
6415
6416
        \ifdefempty\glscustomtext
6417
          \ifglsused{\glslabel}%
6418
          {%
6419
6420
            \acronymfont{\glsgenentryfmt}%
6421
          }%
          {%
6422
            \firstacronymfont{\glsgenentryfmt}%
6423
            \ifglshassymbol{\glslabel}%
6424
6425
               \expandafter\protect\expandafter\acrfootnote\expandafter
6426
                {\@gls@link@opts}{\@gls@link@label}%
6427
                {%
6428
                 \glsifplural
6429
                   {\glsentrysymbolplural{\glslabel}}%
6430
                   {\glsentrysymbol{\glslabel}}%
6431
               }%
6432
            }%
6433
          }%
6434
        }%
6435
6436
        {\glscustomtext\glsinsert}%
6437
     }%
6438 }
```

#### otnoteNewAcronymDef

```
6439 \newcommand*{\DescriptionFootnoteNewAcronymDef}{%
     \edef\@do@newglossaryentry{%
6440
6441
       \noexpand\newglossaryentry{\the\glslabeltok}%
       {%
6442
         type=\acronymtype,%
6443
         name={\noexpand\acronymfont{\the\glsshorttok}},%
6444
         sort={\the\glsshorttok},%
6445
6446
         first={\the\glsshorttok},%
         firstplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6447
         text={\the\glsshorttok},%
6448
         plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6449
          short={\the\glsshorttok},%
6450
          shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6451
         long={\the\glslongtok},%
6452
         longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6453
          symbol={\the\glslongtok},%
6454
          symbolplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6455
6456
          \the\glskeylisttok
6457
       }%
```

```
6458
     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6459
     \let\@org@gls@assign@plural\gls@assign@plural
6460
     \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6461
     \def\gls@assign@firstpl##1##2{%
6462
       \00gls0expand0field{##1}{firstpl}{##2}%
6463
     }%
6464
     \def\gls@assign@plural##1##2{%
6465
       \@@gls@expand@field{##1}{plural}{##2}%
6466
6467
     \def\gls@assign@symbolplural##1##2{%
6468
6469
       \@@gls@expand@field{##1}{symbolplural}{##2}%
6470
     \@do@newglossaryentry
6471
     \let\gls@assign@plural\@org@gls@assign@plural
6472
     \let\gls@assign@firstpl\@org@gls@assign@firstpl
     \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6475 }
```

ootnoteAcronymStyle

If a description and footnote are both required, store the long form in the symbol key. Store the short form in text key. Note that since the long form is stored in the symbol key, if you want the long form to appear in the list of acronyms, you need to use a glossary style that displays the symbol key.

```
6476 \newcommand*{\SetDescriptionFootnoteAcronymStyle}{%
     \renewcommand{\newacronym}[4][]{%
6477
       \ifx\@glsacronymlists\@empty
6478
          \def\@glo@type{\acronymtype}%
6479
          \setkeys{glossentry}{##1}%
6480
          \DeclareAcronymList{\@glo@type}%
6481
          \SetDescriptionFootnoteAcronymDisplayStyle{\@glo@type}%
6482
       \fi
6483
       \glskeylisttok{##1}%
6484
6485
       \glslabeltok{##2}%
       \glsshorttok{##3}%
6486
       \glslongtok{##4}%
6487
       \newacronymhook
6488
6489
       \DescriptionFootnoteNewAcronymDef
6490
```

If footnote package option is specified, set the first use to append the long form (stored in symbol) as a footnote.

```
6491 \@for\@gls@type:=\@glsacronymlists\do{%
6492 \SetDescriptionFootnoteAcronymDisplayStyle{\@gls@type}%
6493 }%
```

Redefine \acronymfont if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though it's part of the acronym.

```
6494 \ifglsacrsmallcaps
6495 \renewcommand*{\acronymfont}[1]{\textsc{##1}}%
```

```
\renewcommand*{\acrpluralsuffix}{%
                    6496
                    6497
                              \glstextup{\glspluralsuffix}}%
                          \else
                    6498
                    6499
                            \ifglsacrsmaller
                              \renewcommand*{\acronymfont}[1]{\textsmaller{##1}}%
                    6500
                    6501
                          \fi
                    6502
                      Check for package option clash
                          \ifglsacrdua
                    6503
                            \PackageError{glossaries}{Option clash: 'footnote' and 'dua'
                    6504
                    6505
                            can't both be set}{}%
                          \fi
                    6506
                    6507 }%
AcronymDisplayStyle
                     Sets the acronym display style for given glossary with description and dua com-
                    6508 \newcommand*{\SetDescriptionDUAAcronymDisplayStyle}[1]{%
                          \defglsentryfmt[#1]{\glsgenentryfmt}%
                    6510 }
ionDUANewAcronymDef
                    6511 \newcommand*{\DescriptionDUANewAcronymDef}{%
                          \edef\@do@newglossaryentry{%
                            \noexpand\newglossaryentry{\the\glslabeltok}%
                    6513
                    6514
                              type=\acronymtype,%
                    6515
                              name={\the\glslongtok},%
                    6516
                              sort={\the\glslongtok},
                    6517
                              text={\the\glslongtok},%
                    6518
                    6519
                              first={\the\glslongtok},%
                              plural={\noexpand\expandonce\noexpand\@glo@longpl},%
                    6520
                              firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
                    6521
                              short={\the\glsshorttok},%
                    6522
                              shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                    6523
                    6524
                              long={\the\glslongtok},%
                              longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
                    6525
                              symbol={\the\glsshorttok},%
                    6526
                              symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
                    6527
                              \the\glskeylisttok
                    6528
                            }%
                    6529
                          }%
                    6530
                    6531
                          \let\@org@gls@assign@firstpl\gls@assign@firstpl
                          \let\@org@gls@assign@plural\gls@assign@plural
                    6532
                          \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
                    6533
                          \def\gls@assign@firstpl##1##2{%
                    6534
```

\@@gls@expand@field{##1}{firstpl}{##2}%

\def\gls@assign@plural##1##2{%

6535

6536

6537

}%

```
6538
       \@@gls@expand@field{##1}{plural}{##2}%
6539
     }%
6540
     \def\gls@assign@symbolplural##1##2{%
       \@@gls@expand@field{##1}{symbolplural}{##2}%
6541
6542
     \@do@newglossaryentry
6543
     \let\gls@assign@firstpl\@org@gls@assign@firstpl
6544
     \let\gls@assign@plural\@org@gls@assign@plural
6545
     \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6546
6547 }
```

tionDUAAcronymStyle

Description, don't use acronym and no footnote. Note that the short form is stored in the symbol key, so if the short form needs to be displayed in the glossary, use a style the displays the symbol.

```
6548 \newcommand*{\SetDescriptionDUAAcronymStyle}{%
     \ifglsacrsmallcaps
        \PackageError{glossaries}{Option clash: 'smallcaps' and 'dua'
6550
       can't both be set}{}%
6551
     \else
6552
6553
       \ifglsacrsmaller
          \PackageError{glossaries}{Option clash: 'smaller' and 'dua'
6554
          can't both be set}{}%
6555
       \fi
6556
     \fi
6557
      \renewcommand{\newacronym}[4][]{%
6558
       \ifx\@glsacronymlists\@empty
6559
          \def\@glo@type{\acronymtype}%
6560
          \setkeys{glossentry}{##1}%
6561
          \DeclareAcronymList{\@glo@type}%
6562
          \SetDescriptionDUAAcronymDisplayStyle{\@glo@type}%
6563
6564
       \fi
        \glskeylisttok{##1}%
6565
        \glslabeltok{##2}%
6566
        \glsshorttok{##3}%
6567
6568
        \glslongtok{##4}%
        \newacronymhook
6569
        \DescriptionDUANewAcronymDef
6570
     }%
6571
 Set display.
      \@for\@gls@type:=\@glsacronymlists\do{%
6572
        \SetDescriptionDUAAcronymDisplayStyle{\@gls@type}%
6573
6574
     }%
6575 }%
```

AcronymDisplayStyle Sets the acronym display style for given glossary using the description setting (but not footnote or dua).

```
6576 \newcommand*{\SetDescriptionAcronymDisplayStyle}[1]{%
     \defglsentryfmt[#1]{%
```

```
6578
                             \ifdefempty\glscustomtext
                    6579
                             {%
                               \ifglsused{\glslabel}%
                    6580
                               {%
                     6581
                      Move the inserted text outside of \acronymfont
                                 \let\gls@org@insert\glsinsert
                    6582
                                 \let\glsinsert\@empty
                    6583
                                 \acronymfont{\glsgenentryfmt}\gls@org@insert
                     6584
                               }%
                    6585
                               {%
                    6586
                                 \glsgenentryfmt
                    6587
                                 \ifglshassymbol{\glslabel}%
                     6588
                                   {%
                     6589
                                       \glsifplural
                     6590
                                       {%
                     6591
                                         \def\@glo@symbol{\glsentrysymbolplural{\glslabel}}%
                     6592
                                       }%
                     6593
                                       {%
                     6594
                                         \def\@glo@symbol{\glsentrysymbol{\glslabel}}%
                     6595
                                      }%
                     6596
                                       \space(\protect\firstacronymfont
                     6597
                                       {\glscapscase
                     6598
                                        {\@glo@symbol}
                     6599
                                        {\@glo@symbol}
                     6600
                                        {\mfirstucMakeUppercase{\@glo@symbol}}})%
                    6601
                                   }%
                     6602
                                   {}%
                     6603
                               }%
                     6604
                             }%
                     6605
                             {\glscustomtext\glsinsert}%
                     6606
                     6607
                     6608 }
iptionNewAcronymDef
                     6609 \newcommand*{\DescriptionNewAcronymDef}{%
                          \edef\@do@newglossaryentry{%
                    6610
                             \noexpand\newglossaryentry{\the\glslabeltok}%
                    6611
                             {%
                    6612
                     6613
                               type=\acronymtype,%
                               name={\noexpand
                    6614
                                 \acrnameformat{\the\glsshorttok}{\the\glslongtok}},%
                    6615
                     6616
                               sort={\the\glsshorttok},%
                               first={\the\glslongtok},%
                    6617
                               firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
                    6618
                               text={\the\glsshorttok},%
                     6619
                               plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
                     6620
                               short={\the\glsshorttok},%
                     6621
                               shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                     6622
```

long={\the\glslongtok},%

6623

```
6624
         longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
         symbol={\noexpand\@glo@text},%
6625
         symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6626
         \the\glskeylisttok}%
6627
6628
     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6629
     \let\@org@gls@assign@plural\gls@assign@plural
6630
     \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6631
     \def\gls@assign@firstpl##1##2{%
6632
       \@@gls@expand@field{##1}{firstpl}{##2}%
6633
     }%
6634
     \def\gls@assign@plural##1##2{%
6635
6636
       \@@gls@expand@field{##1}{plural}{##2}%
6637
     \def\gls@assign@symbolplural##1##2{%
6638
       \@@gls@expand@field{##1}{symbolplural}{##2}%
6639
6640
     \@do@newglossaryentry
6641
     \let\gls@assign@firstpl\@org@gls@assign@firstpl
6642
     \let\gls@assign@plural\@org@gls@assign@plural
6643
     \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6644
6645 }
```

riptionAcronymStyle

Option description is used, but not dua or footnote. Store long form in first key and short form in text and symbol key. The name is stored using \acrnameformat to allow the user to override the way the name is displayed in the list of acronyms.

```
6646 \newcommand*{\SetDescriptionAcronymStyle}{%
     \renewcommand{\newacronym}[4][]{%
       \ifx\@glsacronymlists\@empty
6648
          \def\@glo@type{\acronymtype}%
6649
          \setkeys{glossentry}{##1}%
6650
6651
          \DeclareAcronymList{\@glo@type}%
6652
          \SetDescriptionAcronymDisplayStyle{\@glo@type}%
6653
       \glskeylisttok{##1}%
6654
       \glslabeltok{##2}%
6655
       \glsshorttok{##3}%
6656
       \glslongtok{##4}%
6657
       \newacronymhook
6658
       \DescriptionNewAcronymDef
6659
     }%
6660
 Set display.
     \@for\@gls@type:=\@glsacronymlists\do{%
6661
       \SetDescriptionAcronymDisplayStyle{\@gls@type}%
6662
6663
```

Redefine \acronymfont if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though

```
it's part of the acronym.
```

```
\ifglsacrsmallcaps
6664
        \renewcommand{\acronymfont}[1]{\textsc{##1}}
6665
        \renewcommand*{\acrpluralsuffix}{%
6666
          \glstextup{\glspluralsuffix}}%
6667
     \else
6668
        \ifglsacrsmaller
6669
6670
          \renewcommand*{\acronymfont}[1]{\textsmaller{##1}}%
6671
     \fi
6672
6673 }%
```

AcronymDisplayStyle Sets the acronym display style for given glossary with footnote setting (but not description or dua).

```
6674 \newcommand*{\SetFootnoteAcronymDisplayStyle}[1]{%
6675 \defglsentryfmt[#1]{%
6676 \ifdefempty\glscustomtext
6677 {%
```

Move the inserted text outside of \acronymfont

```
\let\gls@org@insert\glsinsert
6678
          \let\glsinsert\@empty
6679
6680
          \ifglsused{\glslabel}%
6681
          {%
             \acronymfont{\glsgenentryfmt}\gls@org@insert
6682
          }%
6683
          {%
6684
            \firstacronymfont{\glsgenentryfmt}\gls@org@insert
6685
6686
            \ifglshaslong{\glslabel}%
            {%
6687
               \expandafter\protect\expandafter\acrfootnote\expandafter
6688
                {\@gls@link@opts}{\@gls@link@label}%
6689
                {%
6690
6691
                 \glsifplural
                   {\glsentrylongpl{\glslabel}}%
6692
                   {\glsentrylong{\glslabel}}%
6693
               }%
6694
            }%
6695
            {}%
6696
          }%
6697
        }%
6698
        {\glscustomtext\glsinsert}%
6699
6700
     }%
6701 }
```

 ${ t otnoteNewAcronymDef}$ 

6702 \newcommand\*{\FootnoteNewAcronymDef}{%

```
\edef\@do@newglossaryentry{%
6703
6704
        \noexpand\newglossaryentry{\the\glslabeltok}%
       {%
6705
          type=\acronymtype,%
6706
          name={\noexpand\acronymfont{\the\glsshorttok}},%
6707
          sort={\the\glsshorttok},%
6708
          text={\the\glsshorttok},%
6709
          plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6710
          first={\the\glsshorttok},%
6711
          firstplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6712
          short={\the\glsshorttok},%
6713
6714
          shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
          long={\the\glslongtok},%
6715
          longplural = \{ \the\glslongtok\noexpand\acrpluralsuffix \}, \%
6716
          description={\the\glslongtok},%
6717
          descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6718
          \the\glskeylisttok
6719
6720
       }%
     }%
6721
6722
     \let\@org@gls@assign@plural\gls@assign@plural
     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6723
     \let\@org@gls@assign@descplural\gls@assign@descplural
6724
6725
     \def\gls@assign@firstpl##1##2{%
6726
       \@@gls@expand@field{##1}{firstpl}{##2}%
6727
     \def\gls@assign@plural##1##2{%
6728
       \@@gls@expand@field{##1}{plural}{##2}%
6729
6730
      \def\gls@assign@descplural##1##2{%
6731
       \label{lem:condition} $$\00gls0expand0field{$\#1${descplural}{$\#2$}\%} $$
6732
     }%
6733
6734
     \@do@newglossaryentry
     \let\gls@assign@plural\@org@gls@assign@plural
6735
     \let\gls@assign@firstpl\@org@gls@assign@firstpl
6736
     \let\gls@assign@descplural\@org@gls@assign@descplural
6737
6738 }
```

ootnoteAcronymStyle If footnote package option is specified, set the first use to append the long form (stored in description) as a footnote. Use the description key to store the long form.

```
6739 \newcommand*{\SetFootnoteAcronymStyle}{%
6740 \renewcommand{\newacronym}[4][]{%
6741 \ifx\@glsacronymlists\@empty
6742 \def\@glo@type{\acronymtype}%
6743 \setkeys{glossentry}{##1}%
6744 \DeclareAcronymList{\@glo@type}%
6745 \SetFootnoteAcronymDisplayStyle{\@glo@type}%
6746 \fi
6747 \glskeylisttok{##1}%
```

```
6748
        \glslabeltok{##2}%
        \glsshorttok{##3}%
6749
        \glslongtok{##4}%
6750
        \newacronymhook
6751
6752
        \FootnoteNewAcronymDef
     }%
6753
 Set display
      \@for\@gls@type:=\@glsacronymlists\do{%
6754
        \SetFootnoteAcronymDisplayStyle{\@gls@type}%
6755
6756
     }%
```

Redefine \acronymfont if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though it's part of the acronym.

```
\ifglsacrsmallcaps
6757
6758
         \renewcommand*{\acronymfont}[1]{\textsc{##1}}%
         \renewcommand*{\acrpluralsuffix}{%
6759
            \glstextup{\glspluralsuffix}}%
6760
6761
     \else
6762
         \ifglsacrsmaller
6763
            \renewcommand*{\acronymfont}[1]{\textsmaller{##1}}%
         \fi
6764
     \fi
6765
 Check for option clash
     \ifglsacrdua
6766
         \PackageError{glossaries}{Option clash: 'footnote' and 'dua'
6767
         can't both be set}{}%
6768
     \fi
6769
6770 }%
```

 ${\tt lsdoparenifnotempty}$ 

Do a space followed by the argument if the argument doesn't expand to empty or \relax. If argument isn't empty (or \relax), apply the macro to it given in the second argument.

```
6771 \verb|\DeclareRobustCommand*{\glsdoparenifnotempty}[2]{\cite{Command*}} 
6772
      \protected@edef\gls@tmp{#1}%
      \ifdefempty\gls@tmp
6773
      {}%
6774
6775
      {%
         \ifx\gls@tmp\@gls@default@value
6776
6777
           \space (#2{#1})%
6778
         \fi
6779
      }%
6780
6781 }
```

AcronymDisplayStyle

Sets the acronym display style for given glossary where neither footnote nor description is required, but smallcaps or smaller specified.

6782 \newcommand\*{\SetSmallAcronymDisplayStyle}[1]{%

```
6783
                         \defglsentryfmt[#1]{%
                           \ifdefempty\glscustomtext
                   6784
                   6785
                           {%
                     Move the inserted text outside of \acronymfont
                             \let\gls@org@insert\glsinsert
                   6786
                             \let\glsinsert\@empty
                   6787
                             \ifglsused{\glslabel}%
                   6788
                             {%
                    6789
                               \acronymfont{\glsgenentryfmt}\gls@org@insert
                   6790
                             }%
                   6791
                             {%
                   6792
                                \glsgenentryfmt
                    6793
                               \ifglshassymbol{\glslabel}%
                   6794
                               {%
                    6795
                                 \glsifplural
                   6796
                                 {%
                    6797
                   6798
                                    \def\@glo@symbol{\glsentrysymbolplural{\glslabel}}%
                                 }%
                   6799
                                 {%
                    6800
                                    \def\@glo@symbol{\glsentrysymbol{\glslabel}}%
                    6801
                                 }%
                   6802
                                 \space
                    6803
                    6804
                                    (\glscapscase
                    6805
                                   {\firstacronymfont{\@glo@symbol}}%
                                   {\firstacronymfont{\@glo@symbol}}%
                   6806
                                   6807
                               }%
                    6808
                               {}%
                    6809
                             }%
                   6810
                           }%
                    6811
                           {\glscustomtext\glsinsert}%
                    6812
                   6813
                         }%
                   6814}
\SmallNewAcronymDef
                    6815 \newcommand*{\SmallNewAcronymDef}{%
                         \edef\@do@newglossaryentry{%
                   6816
                           \noexpand\newglossaryentry{\the\glslabeltok}%
                   6817
                           {%
                   6818
                             type=\acronymtype,%
                   6819
                             name={\noexpand\acronymfont{\the\glsshorttok}},%
                   6820
                   6821
                             sort={\the\glsshorttok},%
                             text={\the\glsshorttok},%
                   6822
                     Default to the short plural.
                    6823
                             plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
                             first={\the\glslongtok},%
                   6824
```

#### Default to the long plural.

```
6825
         firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
          short={\the\glsshorttok},%
6826
          shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6827
         long={\the\glslongtok},%
6828
         longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6829
         description={\noexpand\@glo@first},%
6830
6831
         descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6832
          symbol={\the\glsshorttok},%
 Default to the short plural.
6833
          symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
          \the\glskeylisttok
6834
       }%
6835
6836
     }%
     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6837
     \let\@org@gls@assign@plural\gls@assign@plural
6838
     \let\@org@gls@assign@descplural\gls@assign@descplural
6839
     \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6840
6841
     \def\gls@assign@firstpl##1##2{%
       \@@gls@expand@field{##1}{firstpl}{##2}%
6842
     }%
6843
     \def\gls@assign@plural##1##2{%
6844
       \00gls0expand0field{##1}{plural}{##2}%
6845
6846
     \def\gls@assign@descplural##1##2{%
6847
       \@@gls@expand@field{##1}{descplural}{##2}%
6848
     }%
6849
     \def\gls@assign@symbolplural##1##2{%
6850
6851
       \@@gls@expand@field{##1}{symbolplural}{##2}%
     }%
6852
     \@do@newglossaryentry
6853
     \let\gls@assign@firstpl\@org@gls@assign@firstpl
6854
     \let\gls@assign@plural\@org@gls@assign@plural
6855
     \let\gls@assign@descplural\@org@gls@assign@descplural
6856
6857
     \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6858 }
```

etSmallAcronymStyle Neither footnote nor description required, but smallcaps or smaller specified.

Use the symbol key to store the short form and first to store the long form.

```
6859 \newcommand*{\SetSmallAcronymStyle}{%
     \renewcommand{\newacronym}[4][]{%
6860
       \ifx\@glsacronymlists\@empty
6861
          \def\@glo@type{\acronymtype}%
6862
          \setkeys{glossentry}{##1}%
6863
          \DeclareAcronymList{\@glo@type}%
6864
          \SetSmallAcronymDisplayStyle{\@glo@type}%
6865
6866
       \glskeylisttok{##1}%
6867
```

```
\glslabeltok{##2}%
                     6868
                             \glsshorttok{##3}%
                     6869
                             \glslongtok{##4}%
                     6870
                             \newacronymhook
                     6871
                     6872
                             \SmallNewAcronymDef
                     6873
                      Change the display since first only contains long form.
                           \@for\@gls@type:=\@glsacronymlists\do{%
                     6874
                             \SetSmallAcronymDisplayStyle{\@gls@type}%
                     6875
                           }%
                     6876
                      Redefine \acronymfont if small caps required. The plural suffix is set in an up-
                      right font so that it remains in normal lower case, otherwise it looks as though
                      it's part of the acronym.
                           \ifglsacrsmallcaps
                     6877
                             \renewcommand*{\acronymfont}[1]{\textsc{##1}}
                     6878
                             \renewcommand*{\acrpluralsuffix}{%
                     6879
                                 \glstextup{\glspluralsuffix}}%
                     6880
                     6881
                           \else
                     6882
                             \renewcommand*{\acronymfont}[1]{\textsmaller{##1}}
                           \fi
                     6883
                      check for option clash
                           \ifglsacrdua
                     6884
                     6885
                             \ifglsacrsmallcaps
                     6886
                               \PackageError{glossaries}{Option clash: 'smallcaps' and 'dua'
                               can't both be set}{}%
                     6887
                     6888
                               \PackageError{glossaries}{Option clash: 'smaller' and 'dua'
                     6889
                               can't both be set}{}%
                     6890
                             \fi
                     6891
                           \fi
                     6892
                     6893 }%
\SetDUADisplayStyle Sets the acronym display style for given glossary with dua setting.
                     6894 \newcommand*{\SetDUADisplayStyle}[1]{%
                           \defglsentryfmt[#1]{\glsgenentryfmt}%
                     6896 }
 \DUANewAcronymDef
                     6897 \newcommand*{\DUANewAcronymDef}{%
                           \edef\@do@newglossaryentry{%
                     6898
                             \noexpand\newglossaryentry{\the\glslabeltok}%
                     6899
                     6900
                             {%
                               type=\acronymtype,%
                     6901
                               name={\the\glsshorttok},%
                     6902
                               text={\the\glslongtok},%
                     6903
                               first={\the\glslongtok},%
                     6904
```

plural={\noexpand\expandonce\noexpand\@glo@longpl},%

6905

```
short={\the\glsshorttok},%
             6907
                       shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
             6908
                       long={\the\glslongtok},%
             6909
                       longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
             6910
                       description={\the\glslongtok},%
             6911
                       descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
             6912
                       symbol={\the\glsshorttok},%
             6913
                       symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
             6914
                       \the\glskeylisttok
             6915
                     }%
             6916
             6917
                   }%
             6918
                   \let\@org@gls@assign@firstpl\gls@assign@firstpl
             6919
                   \let\@org@gls@assign@plural\gls@assign@plural
                   \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
             6920
                   \let\@org@gls@assign@descplural\gls@assign@descplural
             6921
                   \def\gls@assign@firstpl##1##2{%
             6922
             6923
                     \@@gls@expand@field{##1}{firstpl}{##2}%
                   }%
             6924
             6925
                   \def\gls@assign@plural##1##2{%
                     \@@gls@expand@field{##1}{plural}{##2}%
             6926
                   ጉ%
             6927
             6928
                   \def\gls@assign@symbolplural##1##2{%
             6929
                     \@@gls@expand@field{##1}{symbolplural}{##2}%
                   }%
             6930
                   \def\gls@assign@descplural##1##2{%
             6931
                     \@@gls@expand@field{##1}{descplural}{##2}%
             6932
             6933
                   \@do@newglossarventry
             6934
                   \let\gls@assign@firstpl\@org@gls@assign@firstpl
             6935
                   \let\gls@assign@plural\@org@gls@assign@plural
             6936
             6937
                   \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
                   \let\gls@assign@descplural\@org@gls@assign@descplural
             6938
             6939 }
\SetDUAStyle Always expand acronyms.
             6940 \newcommand*{\SetDUAStyle}{%
                   \renewcommand{\newacronym}[4][]{%
             6941
                     \ifx\@glsacronymlists\@empty
             6942
             6943
                       \def\@glo@type{\acronymtype}%
                       \setkeys{glossentry}{##1}%
             6944
                       \DeclareAcronymList{\@glo@type}%
             6945
                       \SetDUADisplayStyle{\@glo@type}%
             6946
                     \fi
             6947
                     \glskevlisttok{##1}%
             6948
                     \glslabeltok{##2}%
             6949
             6950
                     \glsshorttok{##3}%
                     \glslongtok{##4}%
             6951
                     \newacronymhook
             6952
```

firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%

6906

```
6953
                           \DUANewAcronymDef
                        }%
                  6954
                    Set the display
                        \@for\@gls@type:=\@glsacronymlists\do{%
                  6955
                           \SetDUADisplayStyle{\@gls@type}%
                  6956
                        }%
                  6957
                  6958 }
\SetAcronymStyle
                  6959 \newcommand*{\SetAcronymStyle}{%
                        \SetDefaultAcronymStyle
                        \ifglsacrdescription
                  6961
                           \ifglsacrfootnote
                  6962
                             \SetDescriptionFootnoteAcronymStyle
                  6963
                  6964
                           \else
                             \ifglsacrdua
                  6965
                               \SetDescriptionDUAAcronymStyle
                  6966
                  6967
                  6968
                               \SetDescriptionAcronymStyle
                             \fi
                  6969
                           \fi
                  6970
                         \else
                  6971
                           \ifglsacrfootnote
                  6972
                             \SetFootnoteAcronymStyle
                  6973
                  6974
                           \else
                             \ifthenelse{\boolean{glsacrsmallcaps}\OR
                  6975
                               \boolean{glsacrsmaller}}%
                  6976
                             {%
                  6977
                  6978
                               \SetSmallAcronymStyle
                             }%
                  6979
                             {%
                  6980
                               \ifglsacrdua
                  6981
                  6982
                                  \SetDUAStyle
                  6983
                               \fi
                             }%
                  6984
                           \fi
                  6985
                        \fi
                  6986
                  6987 }
```

Set the acronym style according to the package options 6988 \SetAcronymStyle

Allow user to define their own custom acronyms. (For compatibility with versions before v3.0, the short form is stored in the user1 key, the plural short form is stored in the user2 key, the long form is stored in the user3 key and the plural long form is stored in the user4 key.) Defaults to displaying only the acronym with the long form as the description.

tCustomDisplayStyle Sets the acronym display style.

```
\defglsentryfmt[#1]{\glsgenentryfmt}%
                    6991 }
CustomAcronymFields
                    6992 \newcommand*{\CustomAcronymFields}{%
                         name={\the\glsshorttok},%
                    6994
                         description={\the\glslongtok},%
                    6995
                         first={\noexpand\acrfullformat{\the\glslongtok}{\the\glsshorttok}},%
                    6996
                         firstplural={\noexpand\acrfullformat
                            {\noexpand\glsentrylongpl{\the\glslabeltok}}%
                    6997
                            {\noexpand\glsentryshortpl{\the\glslabeltok}}},%
                    6998
                    6999
                         text={\the\glsshorttok},%
                         plural={\the\glsshorttok\noexpand\acrpluralsuffix}%
                    7000
                    7001 }
CustomNewAcronymDef
                    7002 \newcommand*{\CustomNewAcronymDef}{%
                          \protected@edef\@do@newglossaryentry{%
                    7004
                            \noexpand\newglossaryentry{\the\glslabeltok}%
                    7005
                              type=\acronymtype,%
                    7006
                              short={\the\glsshorttok},%
                    7007
                    7008
                              shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                              long={\the\glslongtok},%
                    7009
                              longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
                    7010
                              user1={\the\glsshorttok},%
                    7011
                              user2={\the\glsshorttok\noexpand\acrpluralsuffix},%
                    7012
                    7013
                              user3={\the\glslongtok},%
                              user4={\the\glslongtok\noexpand\acrpluralsuffix},%
                    7014
                    7015
                              \CustomAcronymFields,%
                    7016
                              \the\glskeylisttok
                    7017
                           }%
                    7018
                         ጉ%
                    7019
                          \@do@newglossaryentry
                    7020 }
   \SetCustomStyle
                    7021 \newcommand*{\SetCustomStyle}{%
                         \renewcommand{\newacronym}[4][]{%
                    7023
                            \ifx\@glsacronymlists\@empty
                    7024
                              \def\@glo@type{\acronymtype}%
                    7025
                              \setkeys{glossentry}{##1}%
                              \DeclareAcronymList{\@glo@type}%
                    7026
                              \SetCustomDisplayStyle{\@glo@type}%
                    7027
                    7028
                            \glskeylisttok{##1}%
                    7029
                    7030
                            \glslabeltok{##2}%
```

6989 \newcommand\*{\SetCustomDisplayStyle}[1]{%

```
7031
       \glsshorttok{##3}%
        \glslongtok{##4}%
7032
       \newacronymhook
7033
       \CustomNewAcronymDef
7034
     }%
7035
 Set the display
     \@for\@gls@type:=\@glsacronymlists\do{%
7037
       \SetCustomDisplayStyle{\@gls@type}%
     }%
7038
7039 }
```

# 1.18 Predefined Glossary Styles

The glossaries bundle comes with some predefined glossary styles. These need to be loaded now for the style option to use them.

First, the glossary hyper-navigation commands need to be loaded.

```
7040 \RequirePackage{glossary-hypernav}
```

The styles that use list-like environments. These are not loaded if the nolist option is used:

```
7041 \@gls@loadlist
```

The styles that use the longtable environment. These are not loaded if the nolong package option is used.

```
7042 \@gls@loadlong
```

The styles that use the supertabular environment. These are not loaded if the nosuper package option is used or if the package isn't installed.

```
7043 \@gls@loadsuper
```

The tree-like styles. These are not loaded if the notree package option is used.

```
7044 \@gls@loadtree
```

The default glossary style is set according to the style package option, but can be overridden by \glossarystyle. The required style must be defined at this point.

```
7045\ifx\@glossary@default@style\relax
7046\else
7047 \setglossarystyle{\@glossary@default@style}
7048\fi
```

# 1.19 Debugging Commands

\showgloparent

```
\showgloparent{\langle label\rangle}
```

```
7049 \newcommand*{\showgloparent}[1]{%
7050 \expandafter\show\csname glo@\glsdetoklabel{#1}@parent\endcsname
```

```
\sl_{showglolevel}{\langle label \rangle}
           \showglolevel
                                                                                   7052 \newcommand*{\showglolevel}[1]{%
                                                                                                                   \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@level\endcsname|
                                                                                   7054 }
                \showglotext
                                                                                                   \showglotext{\label\rangle}
                                                                                   7055 \newcommand*{\showglotext}[1]{%
                                                                                                                  \expandafter\show\csname glo@\glsdetoklabel{#1}@text\endcsname
                                                                                   7057 }
     \showgloplural
                                                                                                     \sline 
                                                                                   7058 \newcommand*{\showgloplural}[1]{%
                                                                                                                  \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@plural\endcsname| | leads of the continuous co
                                                                                   7060 }
                                                                                                    \sl \langle label \rangle
           \showglofirst
                                                                                   7061 \newcommand*{\showglofirst}[1]{%
                                                                                                                  \expandafter\show\csname glo@\glsdetoklabel{#1}@first\endcsname
                                                                                   7063 }
                                                                                                    \sl \langle label \rangle
\showglofirstpl
                                                                                    7064 \newcommand*{\showglofirstpl}[1]{%
                                                                                                                  \expandafter\show\csname glo@\glsdetoklabel{#1}@firstpl\endcsname
                                                                                    7065
                                                                                   7066 }
                                                                                                     \showglotype
                                                                                   7067 \newcommand*{\showglotype}[1]{%
                                                                                   7068 \expandafter\show\csname glo@\glsdetoklabel{#1}@type\endcsname
                                                                                    7069 }
```

```
\showglocounter
                                                                \showglocounter{\langle label \rangle}
                                                     7070 \newcommand*{\showglocounter}[1]{%
                                                                         \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@counter\endcsname| | log 
                                                     7072 }
                                                                \showglouseri{\label\}
       \showglouseri
                                                     7073 \newcommand*{\showglouseri}[1]{%
                                                                         \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@useri\endcsname|
                                                     7074
                                                     7075 }
                                                                \showglouserii{\label\}
   \showglouserii
                                                     7076 \newcommand*{\showglouserii}[1]{\%
                                                                         \expandafter\show\csname glo@\glsdetoklabel{#1}@userii\endcsname
                                                     7078}
                                                                \showglouseriii{\label\}
\showglouseriii
                                                     7079 \newcommand*{\showglouseriii}[1]{%
                                                                         \expandafter\show\csname glo@\glsdetoklabel{#1}@useriii\endcsname
                                                     7081 }
   \showglouseriv
                                                                \sl \langle label \rangle
                                                     7082 \newcommand*{\showglouseriv}[1]{%
                                                                         \expandafter\show\csname glo@\glsdetoklabel{#1}@useriv\endcsname
                                                      7083
                                                     7084 }
                                                                \slashowglouserv{\langle label \rangle}
       \showglouserv
```

\expandafter\show\csname glo@\glsdetoklabel{#1}@userv\endcsname

7085 \newcommand\*{\showglouserv}[1]{%

7086 7087 }

```
\showglouservi{\langle label \rangle}
             \showglouservi
                                                          7088 \newcommand*{\showglouservi}[1]{%
                                                                            \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@uservi\endcsname| | learned | lea
                                                          7090 }
                                                                    \showgloname
                                                          7091 \newcommand*{\showgloname}[1]{\%
                                                                             \expandafter\show\csname glo@\glsdetoklabel{#1}@name\endcsname
                                                          7092
                                                           7093 }
                                                                    \showglodesc
                                                          7094 \newcommand*{\showglodesc}[1]{%
                                                                             \expandafter\show\csname glo@\glsdetoklabel{#1}@desc\endcsname
                                                          7096}
                                                                    \sl \ showglodescplural \{\langle label \rangle\}
\showglodescplural
                                                          7097 \newcommand*{\showglodescplural}[1]{%
                                                                            \expandafter\show\csname glo@\glsdetoklabel{#1}@descplural\endcsname
                                                           7099 }
                   \showglosort
                                                                    \showglosort{\langle label \rangle}
                                                          7100 \newcommand*{\showglosort}[1]{%
                                                                             \expandafter\show\csname glo@\glsdetoklabel{#1}@sort\endcsname
                                                          7101
                                                          7102}
            \showglosymbol
                                                                    \showglosymbol{\langle label \rangle}
                                                          7103 \newcommand*{\showglosymbol}[1]{%
                                                                            \expandafter\show\csname glo@\glsdetoklabel{#1}@symbol\endcsname
                                                          7104
                                                          7105}
```

```
\sl \
\showglosymbolplural
                                                              7106 \newcommand*{\showglosymbolplural}[1]{%
                                                                               \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@symbolplural\endcsname| | lendcsname| | lendcsn
                                                              7108}
                                                                       \showgloshort{\label\}
                     \showgloshort
                                                              7109 \newcommand*{\showgloshort}[1]{%
                                                                               \verb|\expandafter\show\csname| glo@\glsdetoklabel{#1}@short\endcsname|
                                                              7110
                                                              7111 }
                                                                       \showglolong{\label\rangle}
                        \showglolong
                                                              7112 \newcommand*{\showglolong}[1]{%
                                                                              \expandafter\show\csname glo@\glsdetoklabel{#1}@long\endcsname
                                                              7114}
                                                                       \showgloindex{\langle label\rangle}
                     \showgloindex
                                                              7115 \newcommand*{\showgloindex}[1]{%
                                                                             \expandafter\show\csname glo@\glsdetoklabel{#1}@index\endcsname
                                                              7117}
                        \showgloflag
                                                                       7118 \newcommand*{\showgloflag}[1]{%
                                                                               \expandafter\show\csname ifglo@\glsdetoklabel{#1}@flag\endcsname
                                                              7119
                                                              7120}
                                                                       \sl \langle label \rangle
               \showgloloclist
                                                              7121 \newcommand*{\showgloloclist}[1]{%
                                                              7122 \expandafter\show\csname glo@\glsdetoklabel{#1}@loclist\endcsname
```

7123 }

#### \showacronymlists

#### \showacronymlists

Show list of glossaries that have been flagged as a list of acronyms.

```
7124 \newcommand*{\showacronymlists}{%
7125 \show\@glsacronymlists
7126}
```

# \showglossaries

#### \showglossaries

Show list of defined glossaries.

```
7127 \newcommand*{\showglossaries}{%
7128 \show\@glo@types
7129}
```

# \showglossaryin

# \showglossaryin{\langle glossary-label\rangle}

Show the 'in' extension for the given glossary.

```
7130 \newcommand*{\showglossaryin}[1]{%
7131 \expandafter\show\csname @glotype@#1@in\endcsname
7132}
```

#### \showglossaryout

# $\space{$\langle glossary-label\rangle$}$

Show the 'out' extension for the given glossary.

```
7133 \newcommand*{\showglossaryout}[1]{%
7134 \expandafter\show\csname @glotype@#1@out\endcsname
7135}
```

#### \showglossarytitle

# \showglossarytitle{\langle glossary-label\rangle}

Show the title for the given glossary.

```
7136\newcommand*{\showglossarytitle}[1]{%
7137\expandafter\show\csname @glotype@#1@title\endcsname
7138}
```

#### \showglossarycounter

#### \showglossarycounter{\langle glossary-label\rangle}

Show the counter for the given glossary.

```
7139\newcommand*{\showglossarycounter}[1]{%
7140 \expandafter\show\csname @glotype@#1@counter\endcsname
7141}
```

\showglossaryentries

#### \showglossaryentries{\langle glossary-label\rangle}

Show the list of entry labels for the given glossary.

```
7142\newcommand*{\showglossaryentries}[1]{%
7143 \expandafter\show\csname glolist@#1\endcsname
7144}
```

# 1.20 Compatibility with version 2.07 and below

In order to fix some bugs in v3.0, it was necessary to change the way information is written to the glo file, which also meant a change in the format of the Xindy style file. The compatibility option is meant for documents that use a customised Xindy style file with \noist. With the compatibility option, hopefully xindy will still be able to process the old document, but the bugs will remain. The issues in versions 2.07 and below:

- With xindy, the counter used by the entry was hard-coded into the Xindy style file. This meant that you couldn't use the counter to swap counters.
- With both xindy and makeindex, if used with hyperref and \theH\(\counter\) was different to \thecounter, the link in the location number would be undefined.

```
7145\csname ifglscompatible-2.07\endcsname
7146 \RequirePackage{glossaries-compatible-207}
7147\fi
```

# 2 Prefix Support (glossaries-prefix Code)

This package provides a means of adding prefixes to your glossary entries. For example, you may want to use "a  $\gls{\langle label\rangle}$ " on first use but use "an  $\gls{\langle label\rangle}$ " on subsequent use.

```
7148 \NeedsTeXFormat{LaTeX2e}
7149 \ProvidesPackage{glossaries-prefix}[2013/11/14 v4.0 (NLCT)]
Pass all options to glossaries:
7150 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{glossaries}}
Process options:
7151 \ProcessOptions
Load glossaries:
7152 \RequirePackage{glossaries}
Add the new keys:
7153 \define@key{glossentry}{prefixfirst}{\def\@glo@entryprefixfirst{#1}}%
7154 \define@key{glossentry}{prefixfirstplural}{\def\@glo@entryprefixfirstplural{#1}}%
7155 \define@key{glossentry}{prefix}{\def\@glo@entryprefixfirstplural{#1}}%
7156 \define@key{glossentry}{prefixplural}{\def\@glo@entryprefixplural{#1}}%
```

```
Add them to \@gls@keymap:
                                              7157 \appto\@gls@keymap{,%
                                              7158
                                                             {prefixfirst}{prefixfirst},%
                                                             {prefixfirstplural}{prefixfirstplural},%
                                              7159
                                                             {prefix}{prefix},%
                                              7160
                                                             {prefixplural}{prefixplural}%
                                              7161
                                              7162 }
                                                 Set the default values:
                                              7163 \appto\@newglossaryentryprehook{%
                                              7164
                                                          \def\@glo@entryprefix{}%
                                                          \def\@glo@entryprefixplural{}%
                                              7165
                                                          7166
                                              7167
                                                           \let\@glo@entryprefixfirstplural\@gls@default@value
                                              7168}
                                                 Set the assignment code:
                                              7169 \appto\@newglossaryentryposthook{%
                                                          \gls@assign@field{}{\@glo@label}{prefix}{\@glo@entryprefix}%
                                                           \gls@assign@field{}{\@glo@label}{prefixplural}{\@glo@entryprefixplural}%
                                                 If prefixfirst has not been supplied, make it the same as prefix.
                                                           \expandafter\gls@assign@field\expandafter
                                                                \label @prefix\endsname \\ \{\@glo@label\endshame\} \\ \{\@glo@label\endsh
                                              7173
                                                                {\@glo@entryprefixfirst}%
                                              7174
                                                 If prefixfirstplural has not been supplied, make it the same as prefixplural.
                                                          \expandafter\gls@assign@field\expandafter
                                                                {\csname glo@\@glo@label @prefixplural\endcsname}{\@glo@label}%
                                              7176
                                              7177
                                                                {prefixfirstplural}{\@glo@entryprefixfirstplural}%
                                              7178 }
                                                      Define commands to access these fields:
glsentryprefixfirst
                                              7179 \newcommand*{\glsentryprefixfirst}[1]{\csuse{glo@#1@prefixfirst}}
ryprefixfirstplural
                                              7180 \newcommand*{\glsentryprefixfirstplural}[1]{\csuse{glo@#1@prefixfirstplural}}
         \glsentryprefix
                                              7181 \newcommand*{\glsentryprefix}[1]{\csuse{glo@#1@prefix}}
{\tt lsentryprefixplural}
                                              7182 \newcommand*{\glsentryprefixplural}[1]{\csuse{glo@#1@prefixplural}}
                                                      Now for the initial upper case variants:
Glsentryprefixfirst
                                              7183 \newrobustcmd*{\Glsentryprefixfirst}[1]{%
                                              7184 \protected@edef\@glo@text{\csname glo@#1@prefixfirst\endcsname}%
                                              7185
                                                          \xmakefirstuc\@glo@text
                                              7186 }
```

```
ryprefixfirstplural
                    7187 \newrobustcmd*{\Glsentryprefixfirstplural}[1]{%
                         \protected@edef\@glo@text{\csname glo@#1@prefixfirstplural\endcsname}%
                         \xmakefirstuc\@glo@text
                    7189
                    7190 }
   \Glsentryprefix
                    7191 \newrobustcmd*{\Glsentryprefix}[1]{%
                        \protected@edef\@glo@text{\csname glo@#1@prefix\endcsname}%
                         \xmakefirstuc\@glo@text
                    7194 }
{\tt lsentryprefixplural}
                    7195 \newrobustcmd*{\Glsentryprefixplural}[1]{%
                         \protected@edef\@glo@text{\csname glo@#1@prefixplural\endcsname}%
                         \xmakefirstuc\@glo@text
                    7198}
                       Define commands to determine if the prefix keys have been set:
   \ifglshasprefix
                    7199 \newcommand*{\ifglshasprefix}[3]{%
                    7200 \ifcsempty{glo@#1@prefix}%
                        {#3}%
                    7201
                    7202 {#2}%
                    7203 }
fglshasprefixplural
                    7204 \newcommand*{\ifglshasprefixplural}[3]{%
                    7205 \ifcsempty{glo@#1@prefixplural}%
                    7206
                        {#3}%
                    7207 {#2}%
                    7208}
ifglshasprefixfirst
                    7209 \newcommand*{\ifglshasprefixfirst}[3]{%
                    7210 \ifcsempty{glo@#1@prefixfirst}%
                    7211 {#3}%
                   7212 {#2}%
                    7213}
asprefixfirstplural
                    7214 \newcommand*{\ifglshasprefixfirstplural}[3]{%
                    7215 \ifcsempty{glo@#1@prefixfirstplural}%
                    7216 {#3}%
                         {#2}%
                    7217
                    7218}
```

Define commands that insert the prefix before commands like \gls:

```
\pgls
          7219 \newrobustcmd{\pgls}{\@ifstar\@spgls\@pgls}
  \@spgls Starred version.
          \label{lem:command*} $$ \end{align*} $$ $$ \operatorname{loggls}(2) []_{\end{align*}} $$
   \@pgls Unstarred version.
          7221 \newcommand*{\@pgls}[2][]{%
                \new@ifnextchar[%
                {\@pgls@{#1}{#2}}%
          7223
                {\@pgls@{#1}{#2}[]}%
          7224
          7225 }
  \@pgls@ Read in the final optional argument:
          7226 \def\@pgls@#1#2[#3]{%
                \glsdoifexists{#2}%
          7227
                {%
          7228
                  \ifglsused{#2}%
          7229
          7230
                     \glsentryprefix{#2}%
          7231
                  }%
          7232
          7233
                     \glsentryprefixfirst{#2}%
          7234
                  }%
          7235
          7236
                  \@gls@{#1}{#2}[#3]%
          7237
               }%
          7238 }
              Similarly for the plural version:
  \pglspl
          \label{lem:cond_pglspl} $$ \operatorname{\cond}(\pglspl)_{\cond}(\pglspl) $$
\@spglspl Starred version.
          7240 \newcommand*{\@spglspl}[2][]{\@pglspl@{hyper=false,#1}{#2}}
\@pglspl Unstarred version.
          7241 \newcommand*{\@pglspl}[2][]{%
          7242 \new@ifnextchar[%
          7243 {\@pglspl@{#1}{#2}}%
          7244 {\@pglspl@{#1}{#2}[]}%
          7245 }
\@pglspl@ Read in the final optional argument:
          7246 \def\@pglspl@#1#2[#3]{%
                \glsdoifexists{#2}%
                {%
          7248
```

 $\left\{ \frac{\#2}{\%} \right\}$ 

7249

```
7250
        7251
                  \glsentryprefixplural{#2}%
        7252
                }%
        7253
                  \glsentryprefixfirstplural{#2}%
        7254
        7255
                \@glspl0{#1}{#2}[#3]%
        7256
              }%
        7257
        7258}
            Now for the first letter upper case versions:
  \Pgls
        7259 \newrobustcmd{\Pgls}{\@ifstar\@sPgls\@Pgls}
\@sPgls Starred version.
        7260 \newcommand*{\@sPgls}[2][]{\@Pgls@{hyper=false,#1}{#2}}
 \@Pgls Unstarred version.
        7261 \newcommand*{\@Pgls}[2][]{%
             \new@ifnextchar[%
        7262
              {\@Pgls@{#1}{#2}}%
        7263
        7264
              {\@Pgls@{#1}{#2}[]}%
        7265 }
\@Pgls@ Read in the final optional argument:
        7266 \def\@Pgls@#1#2[#3]{%
              \glsdoifexists{#2}%
        7267
              {%
        7268
        7269
                \ifglsused{#2}%
        7270
                  \ifglshasprefix{#2}%
        7271
                  {%
        7272
        7273
                     \Glsentryprefix{#2}%
                     \@gls0{#1}{#2}[#3]%
        7274
                  }%
        7275
                  {\@Gls@{#1}{#2}[#3]}%
        7276
                }%
        7277
        7278
                {%
                  \ifglshasprefixfirst{#2}%
        7279
        7280
        7281
                     \Glsentryprefixfirst{#2}%
                     \@gls@{#1}{#2}[#3]%
        7282
                  }%
        7283
        7284
                  {\@Gls@{#1}{#2}[#3]}%
                }%
        7285
        7286
              }%
        7287 }
```

# Similarly for the plural version:

```
\Pglspl
          7288 \newrobustcmd{\Pglspl}{\@ifstar\@sPglspl\@Pglspl}
\@sPglspl Starred version.
          7289 \newcommand*{\QsPglspl}[2][]{\QPglsplQ{hyper=false,#1}{#2}}
\@Pglspl Unstarred version.
          7290 \newcommand*{\@Pglspl}[2][]{%
                \new@ifnextchar[%
          7292
               {\@Pglspl@{#1}{#2}}%
                {\@Pglspl@{#1}{#2}[]}%
          7293
          7294 }
\@Pglspl@ Read in the final optional argument:
          7295 \def\@Pglspl@#1#2[#3]{%
                \glsdoifexists{#2}%
          7297
                {%
                  \left\{ \frac{42}{\%} \right\}
          7298
          7299
                    \ifglshasprefixplural{#2}%
          7300
          7301
                       \Glsentryprefixplural{#2}%
          7302
                       \@glspl0{#1}{#2}[#3]%
          7303
          7304
                    {\Glspl@{#1}{#2}[#3]}%
          7305
                  }%
          7306
          7307
                    \ifglshasprefixfirstplural{#2}%
          7308
                    {%
          7309
                       \Glsentryprefixfirstplural{#2}%
          7310
                       \@glspl@{#1}{#2}[#3]%
          7311
          7312
          7313
                    {\@Glspl@{#1}{#2}[#3]}%
          7314
                  }%
          7315 }%
          7316}
              Finally the all upper case versions:
    \PGLS
          7317 \verb|\newrobustcmd{\PGLS}{\0ifstar\0sPGLS\0PGLS}|
  \@sPGLS Starred version.
          7318 \newcommand*{\@sPGLS}[2][]{\@PGLS@{hyper=false,#1}{#2}}
```

```
\@PGLS Unstarred version.
          7319 \newcommand*{\@PGLS}[2][]{%
                \new@ifnextchar[%
          7320
                {\QPGLSQ{#1}{#2}}%
          7321
          7322
                {\@PGLS@{#1}{#2}[]}%
          7323 }
  \@PGLS@ Read in the final optional argument:
          7324 \def\@PGLS@#1#2[#3]{%
                \glsdoifexists{#2}%
                {%
          7326
          7327
                  \ifglsused{#2}%
          7328
                    \mfirstucMakeUppercase{\glsentryprefix{#2}}%
          7329
                  }%
          7330
          7331
                  {%
          7332
                    \mfirstucMakeUppercase{\glsentryprefixfirst{#2}}%
          7333
                  \@GLS@{#1}{#2}[#3]%
          7334
               }%
          7335
          7336 }
              Plural version:
  \PGLSp1
          7337 \verb|\newrobustcmd{\PGLSpl}{\Qifstar\QsPGLSpl\QPGLSpl}|
\@sPGLSpl Starred version.
          7338 \newcommand*{\@sPGLSp1}[2][]{\@PGLSp1@{hyper=false,#1}{#2}}
\@PGLSpl Unstarred version.
          7339 \newcommand*{\@PGLSp1}[2][]{%
               \new@ifnextchar[%
          7340
          7341
                {\@PGLSpl@{#1}{#2}}%
          7342
                {\@PGLSpl@{#1}{#2}[]}%
          7343 }
\@PGLSp1@ Read in the final optional argument:
          7344 \def\@PGLSpl@#1#2[#3]{%
                \glsdoifexists{#2}%
          7345
                {%
          7346
                  \ifglsused{#2}%
          7347
          7348
                    \mfirstucMakeUppercase{\glsentryprefixplural{#2}}%
          7349
                  }%
          7350
                  {%
          7351
                    \mfirstucMakeUppercase{\glsentryprefixfirstplural{#2}}%
          7352
          7353
          7354
                  \@GLSp1@{#1}{#2}[#3]%
```

```
7355 }%
7356}
```

# 3 Mfirstuc Documented Code

```
7357 \NeedsTeXFormat{LaTeX2e}
7358 \ProvidesPackage{mfirstuc}[2013/11/04 v1.08 (NLCT)]
Requires etoolbox:
7359 \RequirePackage{etoolbox}
Syntax:
```

\makefirstuc

#### \makefirstuc{\langle text\rangle}

Makes the first letter uppercase, but will skip initial control sequences if they are followed by a group and make the first thing in the group uppercase, unless the group is empty. Thus \makefirstuc{abc} will produce: Abc, \makefirstuc{\ae bc} will produce: Æbc, but \makefirstuc{\emph{abc}} will produce Abc. This is required by \Gls and \Glspl.

```
7360\newif\if@glscs
7361\newtoks\@glsmfirst
7362\newtoks\@glsmrest
7363\newrobustcmd*{\makefirstuc}[1]{%
7364 \def\gls@argi{#1}%
7365 \ifx\gls@argi\@empty
```

If the argument is empty, do nothing.

```
\else
7366
7367
        \left(\frac{0}{2}\right)^{ 1}\%
        \@onelevel@sanitize\@gls@tmp
7368
        \expandafter\@gls@checkcs\@gls@tmp\relax\relax
7369
        \if@glscs
7370
          \@gls@getbody #1{}\@nil
7371
7372
          \ifx\@gls@rest\@empty
            \glsmakefirstuc{#1}%
7373
          \else
7374
            \expandafter\@gls@split\@gls@rest\@nil
7375
            \ifx\@gls@first\@empty
7376
                \glsmakefirstuc{#1}%
7377
            \else
7378
                \expandafter\@glsmfirst\expandafter{\@gls@first}%
7379
                \expandafter\@glsmrest\expandafter{\@gls@rest}%
7380
                \edef\@gls@domfirstuc{\noexpand\@gls@body
7381
                  {\noexpand\glsmakefirstuc\the\@glsmfirst}%
7382
                  \the\@glsmrest}%
7383
                \@gls@domfirstuc
7384
            \fi
7385
```

```
7387
                           \else
                             \glsmakefirstuc{#1}%
                    7388
                           \fi
                    7389
                    7390
                         \fi
                    7391 }
                     Put first argument in \@gls@first and second argument in \@gls@rest:
                    7392 \def\@gls@split#1#2\@nil{%
                    7393
                         7394 }
                    7395 \def\@gls@checkcs#1 #2#3\relax{%
                    7396
                         \def\@gls@argi{#1}\def\@gls@argii{#2}%
                         \ifx\@gls@argi\@gls@argii
                    7397
                           \@glscstrue
                    7398
                    7399
                         \else
                    7400
                           \@glscsfalse
                         \fi
                    7401
                    7402 }
 \@gls@makefirstuc Make first thing upper case:
                    7403 \def\@gls@makefirstuc#1{\mfirstucMakeUppercase #1}
irstucMakeUppercase Allow user to replace \MakeUppercase with another case changing command.
                    7404 \newcommand*{\mfirstucMakeUppercase}{\MakeUppercase}
   \glsmakefirstuc Provide a user command to make it easier to customise.
                    7405 \newcommand*{\glsmakefirstuc}[1]{\@gls@makefirstuc{#1}}
                       Get the first grouped argument and stores in \@gls@body.
                    7406 \ensuremath{\verb|def|@gls@body{#1}| @gls@gobbletonil|}
                     Scoup up everything to \@nil and store in \@gls@rest:
                    7407\def\@gls@gobbletonil#1\@nil{\def\@gls@rest{#1}}
     \xmakefirstuc Expand argument once before applying \makefirstuc (added v1.01).
                    7408 \newcommand*{\xmakefirstuc}[1]{%
                    7409 \expandafter\makefirstuc\expandafter{#1}}
  \capitalisewords Capitalise each word in the argument. Words are considered to be separated by
                     plain spaces (i.e. non-breakable spaces won't be considered a word break).
                    7410 \newrobustcmd*{\capitalisewords}[1]{%
                         \def\gls@add@space{}%
                    7412
                         \mfu@capitalisewords#1 \@nil\mfu@endcap
                    7413 }
```

7386

\fi

```
7414 \def\mfu@capitalisewords#1 #2\mfu@endcap{%
                  7415 \def\mfu@cap@first{#1}%
                       \def\mfu@cap@second{#2}%
                  7416
                       \gls@add@space
                  7417
                       \makefirstuc{#1}%
                  7418
                       \def\gls@add@space{}%
                  7419
                       \ifx\mfu@cap@second\@nnil
                  7420
                        \let\next@mfu@cap\mfu@noop
                  7421
                  7422
                         \let\next@mfu@cap\mfu@capitalisewords
                  7423
                  7424
                  7425
                       \next@mfu@cap#2\mfu@endcap
                  7426 }
                  7427 \def\mfu@noop#1\mfu@endcap{}
\xcapitalisewords Short-cut command:
                  7428 \newcommand*{\xcapitalisewords}[1]{%
                       \expandafter\capitalisewords\expandafter{#1}%
```

# 4 Glossary Styles

# 4.1 Glossary hyper-navigation definitions (glossary-hypernav package)

Package Definition:

7430 }

```
7431 \ProvidesPackage{glossary-hypernav}[2013/11/14 v4.0 (NLCT)]
```

The commands defined in this package are provided to help navigate around the groups within a glossary (see subsection 1.15.) \printglossary (and \printglossaries) set \@glo@type to the label of the current glossary. This is used to create a unique hypertarget in the event of multiple glossaries.

```
\glsnavhyperlink[\langle type \rangle] \{\langle label \rangle\} \{\langle text \rangle\}
```

This command makes  $\langle text \rangle$  a hyperlink to the glossary group whose label is given by  $\langle label \rangle$  for the glossary given by  $\langle type \rangle$ .

#### \glsnavhyperlink

```
7432 \newcommand*{\glsnavhyperlink}[3][\@glo@type]{%
7433 \edef\gls@grplabel{#2}\protected@edef\@gls@grptitle{#3}%
7434 \@glslink{glsn:#1@#2}{#3}}
```

 $\verb|\glsnavhypertarget[|\langle type\rangle]| \{\langle label\rangle\} \{\langle text\rangle\}$ 

This command makes  $\langle text \rangle$  a hypertarget for the glossary group whose label is given by  $\langle label \rangle$  in the glossary given by  $\langle type \rangle$ . If  $\langle type \rangle$  is omitted,  $\langle glo@type \rangle$  is used which is set by  $\langle type \rangle$  is other current glossary label.

```
\glsnavhypertarget
```

```
7435 \newcommand*{\glsnavhypertarget}[3][\@glo@type]{%
                       Add this group to the aux file for re-run check.
                           \protected@write\@auxout{}{\string\@gls@hypergroup{#1}{#2}}%
                       Add the target.
                           \@glstarget{glsn:#1@#2}{#3}%
                       Check list of know groups to determine if a re-run is required.
                           \expandafter\let
                     7439
                               \expandafter\@gls@list\csname @gls@hypergrouplist@#1\endcsname
                       Iterate through list and terminate loop if this group is found.
                           \@for\@gls@elem:=\@gls@list\do{%
                     7440
                             \label{lem} $$ \left( \mathbb{^{0}ls@elem}{\#2}} {\endfortrue}{}} \right) $$
                     7441
                       Check if list terminated prematurely.
                     7442
                           \if@endfor
                           \else
                     7443
                       This group was not included in the list, so issue a warning.
                     7444
                              \GlossariesWarningNoLine{Navigation panel
                                 for glossary type '#1'^^Jmissing group '#2'}%
                     7445
                              \gdef\gls@hypergrouprerun{%
                     7446
                                \GlossariesWarningNoLine{Navigation panel
                     7447
                                has changed. Rerun LaTeX}}%
                     7448
                           \fi
                     7449
                     7450 }
gls@hypergrouprerun Give a warning at the end if re-run required
```

```
7451 \let\gls@hypergrouprerun\relax
7452 \AtEndDocument{\gls@hypergrouprerun}
```

\@gls@hypergroup

This adds to (or creates) the command \@gls@hypergrouplist@\\glossary type\) which lists all groups for a given glossary, so that the navigation bar only contains those groups that are present. However it requires at least 2 runs to ensure the information is up-to-date.

```
7453 \newcommand*{\@gls@hypergroup}[2]{%
7454 \@ifundefined{@gls@hypergrouplist@#1}{%
      \expandafter\xdef\csname @gls@hypergrouplist@#1\endcsname{#2}%
7455
7456 } { %
      \expandafter\let\expandafter\@gls@tmp
7457
          \csname @gls@hypergrouplist@#1\endcsname
7458
      \expandafter\xdef\csname @gls@hypergrouplist@#1\endcsname{%
7459
          \@gls@tmp,#2}%
7460
7461 }%
7462 }
```

The \glsnavigation command displays a simple glossary group navigation. The symbol and number elements are defined separately, so that they can be suppressed if need be. Note that this command will produce a link to all 28 groups, but some groups may not be defined if there are groups that do not contain any terms, in which case you will get an undefined hyperlink warning. Now for the whole navigation bit:

#### \glsnavigation

```
7463 \newcommand*{\glsnavigation}{%
7464 \def\@gls@between{}%
7465 \@ifundefined{@gls@hypergrouplist@\@glo@type}{%
7466
      \def\@gls@list{}%
7467 } { %
7468
      \expandafter\let\expandafter\@gls@list
          \csname @gls@hypergrouplist@\@glo@type\endcsname
7469
7470 }%
7471 \@for\@gls@tmp:=\@gls@list\do{%
7472
      \@gls@between
      \@gls@getgrouptitle{\@gls@tmp}{\@gls@grptitle}%
7473
      \glsnavhyperlink{\@gls@tmp}{\@gls@grptitle}%
7474
7475
      \let\@gls@between\glshypernavsep%
7476 }%
7477 }
```

\glshypernavsep Separator for the hyper navigation bar.

```
7478 \newcommand*{\glshypernavsep}{\space\textbar\space}
```

The \glssymbolnav produces a simple navigation set of links for just the symbol and number groups. This used to be used at the start of \glsnavigation. This command is no longer needed.

#### \glssymbolnav

```
7479 \newcommand*{\glssymbolnav}{%
7480 \glsnavhyperlink{glssymbols}{\glsgetgrouptitle{glssymbols}}%
7481 \glshypernavsep
7482 \glsnavhyperlink{glsnumbers}{\glsgetgrouptitle{glsnumbers}}%
7483 \glshypernavsep
7484 }
```

# 4.2 In-line Style (glossary-inline.sty)

This defines an in-line style where the entries are comma-separated with just the name and description displayed.

```
7485 \ProvidesPackage{glossary-inline}[2013/11/14 v4.0 (NLCT)]
```

inline Define the inline style.

```
7486 \newglossarystyle{inline}{%
```

```
Start of glossary sets up first empty separator between entries. (This is then changed by \glossentry)
```

```
7487 \renewenvironment{theglossary}%
7488 {%
7489 \def\gls@inlinesep{}%
7490 \def\gls@inlinesubsep{}%
7491 \def\gls@inlinepostchild{}%
7492 }%
7493 {\glspostinline}%
```

#### No header:

```
7494 \renewcommand*{\glossaryheader}{}%
```

No group headings (if heading is required, add \glsinlinedopostchild to start definition in case heading follows a child entry):

```
7495 \renewcommand*{\glsgroupheading}[1]{}%
```

Just display separator followed by name and description:

```
\renewcommand{\glossentry}[2]{%
7496
        \glsinlinedopostchild
7497
        \gls@inlinesep
7498
7499
        \glsentryitem{##1}%
        \glsinlinenameformat{##1}{%
7500
          \glossentryname{##1}%
7501
       }%
7502
       \ifglsdescsuppressed{##1}%
7503
7504
7505
          \glsinlineemptydescformat
7506
             \glossentrysymbol{##1}%
7507
          }%
7508
          {%
7509
7510
            ##2%
          }%
7511
       }%
7512
       {%
7513
          \ifglshasdesc{##1}%
7514
7515
          {\glsinlinedescformat{\glossentrydesc{##1}}{\glossentrysymbol{##1}}{\#2}}%
          {\glsinlineemptydescformat{\glossentrysymbol{##1}}{##2}}%
7516
7517
       \ifglshaschildren{##1}%
7518
7519
       {%
           \glsresetsubentrycounter
7520
           \glsinlineparentchildseparator
7521
           \def\gls@inlinesubsep{}%
7522
           \def\gls@inlinepostchild{\glsinlinepostchild}%
7523
       }%
7524
7525
       {}%
7526
        \def\gls@inlinesep{\glsinlineseparator}%
7527
     }%
```

```
\renewcommand{\subglossentry}[3]{%
                    7528
                            \gls@inlinesubsep%
                    7529
                            \glsinlinesubnameformat{##2}{%
                    7530
                               \glossentryname{##2}}%
                    7531
                            \glssubentryitem{##2}%
                    7532
                            \glsinlinesubdescformat{\glossentrydesc{##2}}{\glossentrysymbo1{##2}}{##3}%
                    7533
                            \def\gls@inlinesubsep{\glsinlinesubseparator}%
                    7534
                    7535
                          }%
                      Nothing special between groups:
                          \renewcommand*{\glsgroupskip}{}%
                    7536
                    7537 }
lsinlinedopostchild
                    7538 \newcommand*{\glsinlinedopostchild}{%
                            \gls@inlinepostchild
                    7540
                            \def\gls@inlinepostchild{}%
                    7541 }
\glsinlineseparator Separator to use between entries.
                    7542 \newcommand*{\glsinlineseparator}{;\space}
sinlinesubseparator Separator to use between sub-entries.
                    7543 \newcommand*{\glsinlinesubseparator}{,\space}
arentchildseparator Separator to use between parent and children.
                    7544 \newcommand*{\glsinlineparentchildseparator}{:\space}
\glsinlinepostchild Hook to use between child and next entry
                    7545 \newcommand*{\glsinlinepostchild}{}
                    Terminator for inline glossary.
     \glspostinline
                    7546 \newcommand*{\glspostinline}{\glspostdescription\space}
glsinlinenameformat Formats the name of the entry (first argument label, second argument name):
                    7547 \newcommand*{\glsinlinenameformat}[2]{\glstarget{#1}{#2}}
glsinlinedescformat Formats the entry's description, symbol and location list:
                    7548 \newcommand*{\glsinlinedescformat}[3]{\space#1}
lineemptydescformat Formats the entry's symbol and location list when the description is empty:
                    7549 \newcommand*{\glsinlineemptydescformat}[2]{}
                     Formats the name of the subentry (first argument label, second argument
inlinesubnameformat
                    7550 \newcommand*{\glsinlinesubnameformat}[2]{\glstarget{#1}{}}
inlinesubdescformat Formats the subentry's description, symbol and location list:
                    7551 \newcommand*{\glsinlinesubdescformat}[3]{#1}
```

Sub-entries display description:

# 4.3 List Style (glossary-list.sty)

The style file defines glossary styles that use the description environment. Note that since the entry name is placed in the optional argument to the \item command, it will appear in a bold font by default.

```
7552 \ProvidesPackage{glossary-list}[2013/11/14 v4.0 (NLCT)]
```

The list glossary style uses the description environment. The group separator \glsgroupskip is redefined as \indexspace which produces a gap between groups. The glossary heading and the group headings do nothing. Sub-entries immediately follow the main entry without the sub-entry name. This style does not use the entry's symbol. This is used as the default style for the glossaries package.

```
7553 \newglossarystyle{list}{%
            Use description environment:
                \renewenvironment{theglossary}%
          7555
                  {\begin{description}}{\end{description}}%
            No header at the start of the environment:
                \renewcommand*{\glossaryheader}{}%
          7556
            No group headings:
                \renewcommand*{\glsgroupheading}[1]{}%
            Main (level 0) entries start a new item in the list:
                \renewcommand*{\glossentry}[2]{%
          7558
          7559
                  \item[\glsentryitem{##1}%
                         \glstarget{##1}{\glossentryname{##1}}]
          7560
                     \glossentrydesc{##1}\glspostdescription\space ##2}%
          7561
            Sub-entries continue on the same line:
                \renewcommand*{\subglossentry}[3]{%
          7562
                  \glssubentryitem{##2}%
          7563
                  \glstarget{##2}{\strut}%
          7564
                  \glossentrydesc{##2}\glspostdescription\space ##3.}%
          7565
          7566 %
                  \end{macrocode}
          7567 % Add vertical space between groups:
          7568%\changes\{3.03\}\{2012/09/21\}\{added\ check\ for\ glsnogroupskip\}
                  \begin{macrocode}
          7569 %
                \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}%
          7570
          7571 }
           The listgroup style is like the list style, but the glossary groups have headings.
listgroup
          7572 \newglossarystyle{listgroup}{%
            Base it on the list style:
               \setglossarystyle{list}%
            Each group has a heading:
                \renewcommand*{\glsgroupheading}[1]{\item[\glsgetgrouptitle{##1}]}}
```

1isthypergroup The listhypergroup style is like the listgroup style, but has a set of links to the groups at the start of the glossary.

7575 \newglossarystyle{listhypergroup}{%

Base it on the list style:

```
7576 \setglossarystyle{list}%
```

Add navigation links at the start of the environment:

```
7577 \renewcommand*{\glossaryheader}{%
7578 \item[\glsnavigation]}%
```

Each group has a heading with a hypertarget:

```
7579 \renewcommand*{\glsgroupheading}[1]{%
7580 \item[\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}]}}
```

The altlist glossary style is like the list style, but places the description on a new line. Sub-entries follow in separate paragraphs without the sub-entry name. This style does not use the entry's symbol.

7581 \newglossarystyle{altlist}{%

Base it on the list style:

```
7582 \setglossarystyle{list}%
```

Main (level 0) entries start a new item in the list with a line break after the entry name:

```
7583 \renewcommand*{\glossentry}[2]{\%
7584 \item[\glsentryitem{##1}\%
7585 \glstarget{##1}{\glossentryname{##1}}]\%
```

Version 3.04 changed \newline to the following paragraph break stuff (thanks to Daniel Gebhardt for supplying the fix) to prevent a page break occurring at this point.

```
7586 \mbox{}\par\nobreak\@afterheading
7587 \glossentrydesc{##1}\glspostdescription\space ##2}%
```

Sub-entries start a new paragraph:

```
7588 \renewcommand{\subglossentry}[3]{%
7589 \par
7590 \glssubentryitem{##2}%
7591 \glstarget{##2}{\strut}\glossentrydesc{##2}\glspostdescription\space ##3}%
7592}
```

altlistgroup The altlistgroup glossary style is like the altlist style, but the glossary groups have headings.

```
7593 \newglossarystyle{altlistgroup}{%
```

Base it on the altlist style:

```
7594 \setglossarystyle{altlist}%
```

Each group has a heading:

```
7595 \renewcommand*{\glsgroupheading}[1]{\item[\glsgetgrouptitle{##1}]}}
```

```
The altlisthypergroup glossary style is like the altlistgroup style, but has a set of
 altlisthypergroup
                     links to the groups at the start of the glossary.
                    7596 \newglossarystyle{altlisthypergroup}{%
                     Base it on the altlist style:
                         \setglossarystyle{altlist}%
                     Add navigation links at the start of the environment:
                          \renewcommand*{\glossaryheader}{%
                    7598
                            \item[\glsnavigation]}%
                    7599
                     Each group has a heading with a hypertarget:
                          \renewcommand*{\glsgroupheading}[1]{%
                    7601
                            \item[\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}]}}
         listdotted
                     The listdotted glossary style was supplied by Axel Menzel. I've modified it
                     slightly so that the distance from the start of the name to the end of the dot-
                     ted line is specified by \glslistdottedwidth. Note that this style ignores the
                     page numbers as well as the symbol. Sub-entries are displayed in the same way
                     as top-level entries.
                    7602 \newglossarystyle{listdotted}{%
                     Base it on the list style:
                          \setglossarystyle{list}%
                    7603
                     Each main (level 0) entry starts a new item:
                          \renewcommand*{\glossentry}[2]{%
                            \item[]\makebox[\glslistdottedwidth][1]{%
                    7605
                    7606
                              \glsentryitem{##1}%
                    7607
                              \glstarget{##1}{\glossentryname{##1}}%
                              7608
                     Sub entries have the same format as main entries:
                          \renewcommand*{\subglossentry}[3]{%
                            \item[]\makebox[\glslistdottedwidth][1]{%
                    7610
                    7611
                            \glssubentryitem{##2}%
                            \glstarget{##2}{\glossentryname{##2}}%
                    7612
                            \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}\glossentrydesc{##2}}%
                    7613
                    7614 }
\glslistdottedwidth
                    7615 \newlength\glslistdottedwidth
```

```
7616\setlength{\glslistdottedwidth}{.5\hsize}
```

sublistdotted

This style is similar to the glostylelistdotted style, except that the main entries just have the name displayed.

7617 \newglossarystyle{sublistdotted}{%

Base it on the listdotted style:

\setglossarystyle{listdotted}%

Main (level 0) entries just display the name:

```
7619 \renewcommand*{\glossentry}[2]{%
7620 \item[\glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}}]}%
7621}
```

# 4.4 Glossary Styles using longtable (the glossary-long package)

The glossary styles defined in the package used the longtable environment in the glossary.

```
7622 \ProvidesPackage{glossary-long}[2013/11/14 v4.0 (NLCT)]
```

Requires the package:

7623 \RequirePackage{longtable}

\glsdescwidth

This is a length that governs the width of the description column. (There's a chance that the user may specify nolong and then load later, in which case \glsdescwidth may have already been defined by . The same goes for \glspagelistwidth.)

```
7624 \@ifundefined{glsdescwidth}{%
7625 \newlength\glsdescwidth
7626 \setlength{\glsdescwidth}{0.6\hsize}
7627 \}{}
```

\glspagelistwidth This is a length that governs the width of the page list column.

```
7628 \@ifundefined{glspagelistwidth}{%
7629 \newlength\glspagelistwidth
7630 \setlength{\glspagelistwidth}{0.1\hsize}
7631}{}
```

long The long glossary style command which uses the longtable environment:

```
7632 \newglossarystyle{long}{%
```

Use longtable with two columns:

```
7633 \renewenvironment{theglossary}%
7634 {\begin{longtable}{lp{\glsdescwidth}}}%
7635 {\end{longtable}}%
```

Do nothing at the start of the environment:

```
7636 \renewcommand*{\glossaryheader}{}%
```

No heading between groups:

```
7637 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries displayed in a row:

```
7638 \renewcommand{\glossentry}[2]{%
7639 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7640 \glossentrydesc{##1}\glspostdescription\space ##2\tabularnewline
7641 }%
```

```
Sub entries displayed on the following row without the name:
```

```
\renewcommand{\subglossentry}[3]{%
           7643
                     Źг
                     \glssubentryitem{##2}%
           7644
                     \glstarget{##2}{\strut}\glosentrydesc{##2}\glspostdescription\space
           7645
                     ##3\tabularnewline
           7646
                 }%
           7647
             Blank row between groups:
                 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else &
           7649 \tabularnewline\fi}%
           7650 }
            The longborder style is like the above, but with horizontal and vertical lines:
longborder
           7651 \newglossarystyle{longborder}{%
             Base it on the glostylelong style:
                 \setglossarystyle{long}%
             Use longtable with two columns with vertical lines between each column:
                 \renewenvironment{theglossary}{%
           7653
                    \label{longtable} $$\left(|1|p{\glsdescwidth}|\right)_{\end{longtable}}% $$
           7654
```

Place horizontal lines at the head and foot of the table:

```
7655
     \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}%
7656}
```

The longheader style is like the long style but with a header: longheader

```
7657 \newglossarystyle{longheader}{%
```

Base it on the glostylelong style:

\setglossarystyle{long}%

Set the table's header:

7642

```
\renewcommand*{\glossaryheader}{%
7659
       \bfseries \entryname & \bfseries \descriptionname\tabularnewline\endhead}%
7660
7661 }
```

The longheaderborder style is like the long style but with a header and border: longheaderborder

```
7662 \newglossarystyle{longheaderborder}{%
```

Base it on the glostylelongborder style:

```
\setglossarystyle{longborder}%
```

Set the table's header and add horizontal line to table's foot:

```
7664
     \renewcommand*{\glossaryheader}{%
       \hline\bfseries \entryname & \bfseries
7665
       \descriptionname\tabularnewline\hline
7666
       \endhead
7667
       \hline\endfoot}%
7668
7669 }
```

```
long3col The long3col style is like long but with 3 columns
```

```
7670 \newglossarystyle{long3col}{%
```

Use a longtable with 3 columns:

```
7671 \renewenvironment{theglossary}%
7672 {\begin{longtable}{lp{\glsdescwidth}p{\glspagelistwidth}}}%
7673 {\end{longtable}}%
```

#### No table header:

```
7674 \renewcommand*{\glossaryheader}{}%
```

No headings between groups:

```
7675 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
7676 \renewcommand{\glossentry}[2]{%
7677 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7678 \glossentrydesc{##1} & ##2\tabularnewline
7679 }%
```

Sub-entries on a separate row (no name, description in second column, page list in third column):

```
7680 \renewcommand{\subglossentry}[3]{%
7681 &
7682 \glssubentryitem{##2}%
7683 \glstarget{##2}{\strut}\glossentrydesc{##2} &
7684 ##3\tabularnewline
7685 }%
```

### Blank row between groups:

```
7686 \renewcommand*{\glsgroupskip}{%
7687 \ifglsnogroupskip\else & &\tabularnewline\fi}%
7688}
```

long3colborder The long3colborder style is like the long3col style but with a border:

7689 \newglossarystyle{long3colborder}{%

Base it on the glostylelong3col style:

```
7690 \setglossarystyle{long3col}%
```

Use a longtable with 3 columns with vertical lines around them:

```
7691 \renewenvironment{theglossary}%
7692 {\begin{longtable}{||lp{\glsdescwidth}|p{\glspagelistwidth}|}}%
7693 {\end{longtable}}%
```

Place horizontal lines at the head and foot of the table:

```
7694 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}%
7695}
```

long3colheader The long3colheader style is like long3col but with a header row:

7696 \newglossarystyle{long3colheader}{%

```
Base it on the glostylelong3col style:
```

```
7697 \setglossarystyle{long3col}%
```

Set the table's header:

```
7698 \renewcommand*{\glossaryheader}{%
7699 \bfseries\entryname&\bfseries\descriptionname&
7700 \bfseries\pagelistname\tabularnewline\endhead}%
7701}
```

ong3colheaderborder

The long3colheaderborder style is like the above but with a border

7702 \newglossarystyle{long3colheaderborder}{%

Base it on the glostylelong3colborder style:

```
7703 \setglossarystyle{long3colborder}%
```

Set the table's header and add horizontal line at table's foot:

```
7704 \renewcommand*{\glossaryheader}{%
7705 \hline
7706 \bfseries\entryname&\bfseries\descriptionname&
7707 \bfseries\pagelistname\tabularnewline\hline\endhead
7708 \hline\endfoot}%
7709}
```

long4col The long4col style has four columns where the third column contains the value of the associated symbol key.

7710 \newglossarystyle{long4col}{%

Use a longtable with 4 columns:

```
7711 \renewenvironment{theglossary}%
7712 {\begin{longtable}{1111}}%
7713 {\end{longtable}}%
```

No table header:

```
7714 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
7715 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a single row (name in first column, description in second column, symbol in third column, page list in last column):

```
7716 \renewcommand{\glossentry}[2]{%
7717 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7718 \glossentrydesc{##1} &
7719 \glossentrysymbol{##1} &
7720 ##2\tabularnewline
7721 }%
```

Sub entries on a single row with no name (description in second column, symbol in third column, page list in last column):

```
7722 \renewcommand{\subglossentry}[3]{%
7723 &
```

```
7724
                              \glssubentryitem{##2}%
                              \glstarget{##2}{\strut}\glossentrydesc{##2} &
                     7725
                     7726
                              \glossentrysymbol{##2} & ##3\tabularnewline
                          }%
                     7727
                      Blank row between groups:
                           \renewcommand*{\glsgroupskip}{%
                             \ifglsnogroupskip\else & & &\tabularnewline\fi}%
                     7729
                     7730 }
                     The long4colheader style is like long4col but with a header row.
     long4colheader
                     7731 \newglossarystyle{long4colheader}{%
                      Base it on the glostylelong4col style:
                           \setglossarystyle{long4col}%
                      Table has a header:
                           \renewcommand*{\glossaryheader}{%
                     7733
                     7734
                             \bfseries\entryname&\bfseries\descriptionname&
                     7735
                             \bfseries \symbolname&
                             \bfseries\pagelistname\tabularnewline\endhead}%
                     7736
                     7737 }
     long4colborder
                     The long4colborder style is like long4col but with a border.
                     7738 \newglossarystyle{long4colborder}{%
                      Base it on the glostylelong4col style:
                           \setglossarystyle{long4col}%
                      Use a longtable with 4 columns surrounded by vertical lines:
                           \renewenvironment{theglossary}%
                             {\begin{longtable}{|1|1|1|1|}}%
                     7741
                     7742
                             {\end{longtable}}%
                      Add horizontal lines to the head and foot of the table:
                           \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}%
                     7743
                     7744 }
                      The long4colheaderborder style is like the above but with a border.
ong4colheaderborder
                     7745 \newglossarystyle{long4colheaderborder}{%
                      Base it on the glostylelong4col style:
                           \setglossarystyle{long4col}%
                      Use a longtable with 4 columns surrounded by vertical lines:
                     7747
                           \renewenvironment{theglossary}%
                             {\begin{longtable}{|1|1|1|1|}}%
                     7748
                             {\end{longtable}}%
                     7749
                      Add table header and horizontal line at the table's foot:
```

\hline\bfseries\entryname&\bfseries\descriptionname&

\renewcommand\*{\glossaryheader}{%

7750 7751

```
7752 \bfseries \symbolname&
7753 \bfseries\pagelistname\tabularnewline\hline\endhead
7754 \hline\endfoot}%
7755}
```

altlong4col The altlong4col style is like the long4col style but can have multiline descriptions and page lists.

7756 \newglossarystyle{altlong4col}{%

Base it on the glostylelong4col style:

```
7757 \setglossarystyle{long4col}%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7758 \renewenvironment{theglossary}%
7759 {\begin{longtable}{lp{\glsdescwidth}lp{\glspagelistwidth}}}%
7760 {\end{longtable}}%
7761}
```

altlong4colheader The altlong4colheader style is like altlong4col but with a header row.

7762 \newglossarystyle{altlong4colheader}{%

Base it on the glostylelong4colheader style:

```
7763 \setglossarystyle{long4colheader}%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7764 \renewenvironment{theglossary}%
7765 {\begin{longtable}{lp{\glsdescwidth}lp{\glspagelistwidth}}}%
7766 {\end{longtable}}%
7767}
```

altlong4colborder The altlong4colborder style is like altlong4col but with a border.

7768 \newglossarystyle{altlong4colborder}{%

Base it on the glostylelong4colborder style:

```
7769 \setglossarystyle{long4colborder}%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7770 \renewenvironment{theglossary}%
7771 {\begin{longtable}{|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}}%
7772 {\end{longtable}}%
7773}
```

ong4colheaderborder

The altlong4colheaderborder style is like the above but with a header as well as a border.

7774 \newglossarystyle{altlong4colheaderborder}{%

Base it on the glostylelong4colheaderborder style:

7775 \setglossarystyle{long4colheaderborder}%

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7776 \renewenvironment{theglossary}%
7777 {\begin{longtable}{|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}}%
7778 {\end{longtable}}%
7779}
```

# 4.5 Glossary Styles using longtable (the glossary-longragged package)

The glossary styles defined in the package used the longtable environment in the glossary and use ragged right formatting for the multiline columns.

```
7780 \ProvidesPackage{glossary-longragged} [2013/11/14 v4.0 (NLCT)]
```

Requires the package:

7781 \RequirePackage{array}

Requires the package:

7782 \RequirePackage{longtable}

\glsdescwidth This is a length that governs the width of the description column. This may have already been defined.

```
7783 \@ifundefined{glsdescwidth}{%
7784 \newlength\glsdescwidth
7785 \setlength{\glsdescwidth}{0.6\hsize}
7786}{}
```

\glspagelistwidth This is a length that governs the width of the page list column. This may already have been defined.

```
7787 \@ifundefined{glspagelistwidth}{%
7788 \newlength\glspagelistwidth
7789 \setlength{\glspagelistwidth}{0.1\hsize}
7790}{}
```

longragged The longragged glossary style is like the long but uses ragged right formatting for the description column.

7791 \newglossarystyle{longragged}{%

Use longtable with two columns:

```
7792 \renewenvironment{theglossary}%
7793 {\begin{longtable}{\raggedright}p{\glsdescwidth}}}%
7794 {\end{longtable}}%
```

Do nothing at the start of the environment:

```
7795 \renewcommand*{\glossaryheader}{}%
```

No heading between groups:

7796 \renewcommand\*{\glsgroupheading}[1]{}%

```
Main (level 0) entries displayed in a row:
```

```
7797 \renewcommand{\glossentry}[2]{%
7798 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7799 \glossentrydesc{##1}\glspostdescription\space ##2%
7800 \tabularnewline
7801 }%
```

Sub entries displayed on the following row without the name:

```
7802 \renewcommand{\subglossentry}[3]{%
7803 &
7804 \glssubentryitem{##2}%
7805 \glstarget{##2}{\strut}\glossentrydesc{##2}%
7806 \glspostdescription\space ##3%
7807 \tabularnewline
7808 }%
```

## Blank row between groups:

```
7809 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & \tabularnewline\fi}%
7810}
```

## longraggedborder

The longraggedborder style is like the above, but with horizontal and vertical lines:

7811 \newglossarystyle{longraggedborder}{%

Base it on the glostylelongragged style:

```
7812 \setglossarystyle{longragged}%
```

Use longtable with two columns with vertical lines between each column:

```
7813 \renewenvironment{theglossary}{%
7814 \begin{longtable}{|1|>{\raggedright}p{\glsdescwidth}|}}%
7815 {\end{longtable}}%
```

Place horizontal lines at the head and foot of the table:

```
7816 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}% 7817}
```

#### longraggedheader

The longraggedheader style is like the longragged style but with a header:

```
7818 \newglossarystyle{longraggedheader}{%
```

Base it on the glostylelongragged style:

```
7819 \setglossarystyle{longragged}%
```

Set the table's header:

```
7820 \renewcommand*{\glossaryheader}{%

7821 \bfseries \entryname & \bfseries \descriptionname

7822 \tabularnewline\endhead}%

7823}
```

#### graggedheaderborder

The longraggedheaderborder style is like the longragged style but with a header and border:

7824\newglossarystyle{longraggedheaderborder}{%

```
Base it on the glostylelongraggedborder style:
```

```
7825 \setglossarystyle{longraggedborder}%
```

Set the table's header and add horizontal line to table's foot:

```
7826 \renewcommand*{\glossaryheader}{%
7827 \hline\bfseries \entryname & \bfseries \descriptionname
7828 \tabularnewline\hline
7829 \endhead
7830 \hline\endfoot}%
7831}
```

longragged3col The longragged3col style is like longragged but with 3 columns

7832 \newglossarystyle{longragged3col}{%

Use a longtable with 3 columns:

```
7833 \renewenvironment{theglossary}%
7834 {\begin{longtable}{1>{\raggedright}p{\glsdescwidth}%
7835 >{\raggedright}p{\glspagelistwidth}}}%
7836 {\end{longtable}}%
```

No table header:

```
7837 \renewcommand*{\glossaryheader}{}%
```

No headings between groups:

```
7838 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
7839 \renewcommand{\glossentry}[2]{%
7840 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7841 \glossentrydesc{##1} & ##2\tabularnewline
7842 }%
```

Sub-entries on a separate row (no name, description in second column, page list in third column):

```
7843 \renewcommand{\subglossentry}[3]{%
7844 &
7845 \glssubentryitem{##2}%
7846 \glstarget{##2}{\strut}\glossentrydesc{##2} &
7847 ##3\tabularnewline
7848 }%
```

Blank row between groups:

```
7849 \renewcommand*{\glsgroupskip}{%
7850 \ifglsnogroupskip\else & &\tabularnewline\fi}%
7851}
```

ongragged3colborder

The longragged3colborder style is like the longragged3col style but with a border:

7852 \newglossarystyle{longragged3colborder}{%

```
Base it on the glostylelongragged3col style:
```

```
7853 \setglossarystyle{longragged3col}%
```

Use a longtable with 3 columns with vertical lines around them:

```
7854 \renewenvironment{theglossary}%
7855 {\begin{longtable}{|1|>{\raggedright}p{\glsdescwidth}|%
7856 >{\raggedright}p{\glspagelistwidth}|}}%
7857 {\end{longtable}}%
```

Place horizontal lines at the head and foot of the table:

```
7858 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}% 7859}
```

ongragged3colheader

The longragged3colheader style is like longragged3col but with a header row:

 $7860 \verb|\newglossarystyle{longragged3colheader}{{\%}}$ 

Base it on the glostylelongragged3col style:

```
7861 \setglossarystyle{longragged3col}%
```

Set the table's header:

```
7862 \renewcommand*{\glossaryheader}{%
7863 \bfseries\entryname&\bfseries\descriptionname&
7864 \bfseries\pagelistname\tabularnewline\endhead}%
7865}
```

ged3colheaderborder

The longragged3colheaderborder style is like the above but with a border

```
7866 \newglossarystyle{longragged3colheaderborder}{%
```

Base it on the glostylelongragged3colborder style:

```
7867 \setglossarystyle{longragged3colborder}%
```

Set the table's header and add horizontal line at table's foot:

```
7868 \renewcommand*{\glossaryheader}{%
7869 \hline
7870 \bfseries\entryname&\bfseries\descriptionname&
7871 \bfseries\pagelistname\tabularnewline\hline\endhead
7872 \hline\endfoot}%
7873}
```

 $\verb|altlongragged4col||$ 

The altlongragged4col style is like the altlong4col style defined in the package, except that ragged right formatting is used for the description and page list columns.

```
7874 \newglossarystyle{altlongragged4col}{%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7875 \renewenvironment{theglossary}%
7876 {\begin{longtable}{1>{\raggedright}p{\glsdescwidth}1%
7877 >{\raggedright}p{\glspagelistwidth}}}%
7878 {\end{longtable}}%
```

No table header:

```
7879 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
7880 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a single row (name in first column, description in second column, symbol in third column, page list in last column):

```
7881 \renewcommand{\glossentry}[2]{%
7882 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7883 \glossentrydesc{##1} & \glossentrydesc{##1} &
7884 ##2\tabularnewline
7885 }%
```

Sub entries on a single row with no name (description in second column, symbol in third column, page list in last column):

```
7886 \renewcommand{\subglossentry}[3]{%
7887 &
7888 \glssubentryitem{##2}%
7889 \glstarget{##2}{\strut}\glossentrydesc{##2} &
7890 \glossentrysymbol{##2} & ##3\tabularnewline
7891 }%
```

Blank row between groups:

```
7892 \renewcommand*{\glsgroupskip}{%
7893 \ifglsnogroupskip\else & & &\tabularnewline\fi}%
7894}
```

ongragged4colheader

The altlongragged4colheader style is like altlongragged4col but with a header row.

7895 \newglossarystyle{altlongragged4colheader}{%

Base it on the glostylealtlongragged4col style:

```
7896 \setglossarystyle{altlongragged4col}%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7897 \renewenvironment{theglossary}%
7898 {\begin{longtable}{l>{\raggedright}p{\glsdescwidth}1%
7899 >{\raggedright}p{\glspagelistwidth}}}%
7900 {\end{longtable}}%
```

Table has a header:

```
7901 \renewcommand*{\glossaryheader}{%
7902 \bfseries\entryname&\bfseries\descriptionname&
7903 \bfseries \symbolname&
7904 \bfseries\pagelistname\tabularnewline\endhead}%
7905}
```

ongragged4colborder

The altlongragged4colborder style is like altlongragged4col but with a border. 7906 \newglossarystyle{altlongragged4colborder}{%

Base it on the glostylealtlongragged4col style:

```
7907 \setglossarystyle{altlongragged4col}%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7908 \renewenvironment{theglossary}%
7909 {\begin{longtable}{|1|>{\raggedright}p{\glsdescwidth}|1|%
7910 >{\raggedright}p{\glspagelistwidth}|}}%
7911 {\end{longtable}}%
```

Add horizontal lines to the head and foot of the table:

```
7912 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}% 7913}
```

ged4colheaderborder

The altlongragged4colheaderborder style is like the above but with a header as well as a border.

7914\newglossarystyle{altlongragged4colheaderborder}{%

Base it on the glostylealtlongragged4col style:

```
7915 \setglossarystyle{altlongragged4col}%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7916 \renewenvironment{theglossary}%
7917 {\begin{longtable}{|1|>{\raggedright}p{\glsdescwidth}|1|%
7918 >{\raggedright}p{\glspagelistwidth}|}}%
7919 {\end{longtable}}%
```

Add table header and horizontal line at the table's foot:

```
7920 \renewcommand*{\glossaryheader}{%
7921 \hline\bfseries\entryname&\bfseries\descriptionname&
7922 \bfseries \symbolname&
7923 \bfseries\pagelistname\tabularnewline\hline\endhead
7924 \hline\endfoot}%
7925}
```

# 4.6 Glossary Styles using multicol (glossary-mcols.sty)

The style file defines glossary styles that use the multicol package. These use the tree-like glossary styles in a multicol environment.

```
7926 \ProvidesPackage{glossary-mcols}[2013/11/14 v4.0 (NLCT)] Required packages:
```

```
7927 \RequirePackage{multicol}
7928 \RequirePackage{glossary-tree}
```

\glsmcols Define macro in which to store the number of columns. (Defaults to 2.)

```
7929 \newcommand*{\glsmcols}{2}
```

Multi-column index style. Same as the index, but puts the glossary in multiple columns. (Ideally the glossary title should go in the optional argument of multicols, but the title isn't part of the glossary style.)

```
7930 \newglossarystyle{mcolindex}{%
7931 \setglossarystyle{index}%
7932 \renewenvironment{theglossary}%
7933 {%

7934 \begin{multicols}{\glsmcols}
7935 \setlength{\parindent}{0pt}%
7936 \setlength{\parskip}{0pt plus 0.3pt}%
7937 \let\item\@idxitem}%
7938 {\end{multicols}}%
7939}
```

mcolindexgroup As mcolindex but has headings:

```
7940 \newglossarystyle{mcolindexgroup}{%
7941 \setglossarystyle{mcolindex}%
7942 \renewcommand*{\glsgroupheading}[1]{%
7943 \item\textbf{\glsgetgrouptitle{##1}}\indexspace}%
7944}
```

mcolindexhypergroup

The mcolindexhypergroup style is like the mcolindexgroup style but has hyper navigation.

7945 \newglossarystyle{mcolindexhypergroup}{%

Base it on the glostylemcolindex style:

```
7946 \setglossarystyle{mcolindex}%
```

Put navigation links to the groups at the start of the glossary:

```
7947 \renewcommand*{\glossaryheader}{%
7948 \item\textbf{\glsnavigation}\indexspace}%
```

Add a heading for each group (with a target). The group's title is in bold followed by a vertical gap.

```
7949 \renewcommand*{\glsgroupheading}[1]{%
7950 \item\textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}%
7951 \indexspace}%
7952}
```

mcoltree Multi-column index style. Same as the tree, but puts the glossary in multiple columns.

```
7953 \newglossarystyle{mcoltree}{%
7954 \setglossarystyle{tree}%
7955 \renewenvironment{theglossary}%
7956 {%

7957 \begin{multicols}{\glsmcols}
7958 \setlength{\parindent}{0pt}%
7959 \setlength{\parindent}{0pt plus 0.3pt}%
```

```
7960 }%
7961 {\end{multicols}}%
7962}
```

mcoltreegroup

Like the mcoltree style but the glossary groups have headings.

```
7963 \newglossarystyle{mcoltreegroup}{%
```

Base it on the glostylemcoltree style:

```
7964 \setglossarystyle{mcoltree}%
```

Each group has a heading (in bold) followed by a vertical gap):

```
7965 \renewcommand{\glsgroupheading}[1]{\par
7966 \noindent\textbf{\glsgetgrouptitle{##1}}\par\indexspace}%
7967}
```

 ${\tt mcoltreehypergroup}$ 

The mcoltreehypergroup style is like the treegroup style, but has a set of links to the groups at the start of the glossary.

```
7968 \newglossarystyle{mcoltreehypergroup}{%
```

Base it on the glostylemcoltree style:

```
7969 \setglossarystyle{mcoltree}%
```

Put navigation links to the groups at the start of the theglossary environment:

```
7970 \renewcommand*{\glossaryheader}{%
7971 \par\noindent\textbf{\glsnavigation}\par\indexspace}%
```

Each group has a heading (in bold with a target) followed by a vertical gap):

```
7972 \renewcommand*{\glsgroupheading}[1]{%
7973 \par\noindent
7974 \textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par
7975 \indexspace}%
7976}
```

 ${\tt mcoltreenoname}$ 

Multi-column index style. Same as the treenoname, but puts the glossary in multiple columns.

```
7977 \newglossarystyle{mcoltreenoname}{%
7978 \setglossarystyle{treenoname}%
7979 \renewenvironment{theglossary}%
7980 {%

7981 \begin{multicols}{\glsmcols}
7982 \setlength{\parindent}{0pt}%
7983 \setlength{\parindent}{0pt plus 0.3pt}%
7984 }%
7985 {\end{multicols}}%
7986}
```

ncoltreenonamegroup

Like the mcoltreenoname style but the glossary groups have headings.

```
7987 \newglossarystyle{mcoltreenonamegroup}{%
```

Base it on the glostylemcoltreenoname style:

```
7988 \setglossarystyle{mcoltreenoname}%
```

```
Give each group a heading:
```

```
7989 \renewcommand{\glsgroupheading}[1]{\par
7990 \noindent\textbf{\glsgetgrouptitle{##1}}\par\indexspace}%
7991}
```

reenonamehypergroup

The mcoltreenonamehypergroup style is like the mcoltreenonamegroup style, but has a set of links to the groups at the start of the glossary.

7992 \newglossarystyle{mcoltreenonamehypergroup}{%

Base it on the glostylemcoltreenoname style:

```
7993 \setglossarystyle{mcoltreenoname}%
```

Put navigation links to the groups at the start of the theglossary environment:

```
7994 \renewcommand*{\glossaryheader}{%
7995 \par\noindent\textbf{\glsnavigation}\par\indexspace}%
```

Each group has a heading (in bold with a target) followed by a vertical gap):

```
7996 \renewcommand*{\glsgroupheading}[1]{%
7997 \par\noindent
7998 \textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par
7999 \indexspace}%
8000}
```

mcolalttree Multi-column index style. Same as the alttree, but puts the glossary in multiple columns.

```
8001 \newglossarystyle{mcolalttree}{%
     \setglossarystyle{alttree}%
8003
     \renewenvironment{theglossary}%
     {%
8004
         \begin{multicols}{\glsmcols}
8005
         \def\@gls@prevlevel{-1}%
8006
         \mbox{}\par
8007
8008
     }%
8009
     {\par\end{multicols}}%
8010 }
```

mcolalttreegroup Like the mcolalttree style but the glossary groups have headings.

8011 \newglossarystyle{mcolalttreegroup}{%

Base it on the glostylemcolalttree style:

```
8012 \setglossarystyle{mcolalttree}%
```

Give each group a heading.

```
8013 \renewcommand{\glsgroupheading}[1]{\par
8014 \def\@gls@prevlevel{-1}%
8015 \hangindent0pt\relax
8016 \parindent0pt\relax
8017 \textbf{\glsgetgrouptitle{##1}}\par\indexspace}%
8018}
```

The mcolalttreehypergroup style is like the mcolalttreegroup style, but has a set olalttreehypergroup of links to the groups at the start of the glossary. 8019 \newglossarystyle{mcolalttreehypergroup}{% Base it on the glostylemcolalttree style: \setglossarystyle{mcolalttree}% Put the navigation links in the header \renewcommand\*{\glossaryheader}{% 8021 8022 8023 \def\@gls@prevlevel{-1}% \hangindentOpt\relax 8024 8025 \parindent0pt\relax \textbf{\glsnavigation}\par\indexspace}% 8026 Put a hypertarget at the start of each group \renewcommand\*{\glsgroupheading}[1]{% \par 8028 \def\@gls@prevlevel{-1}% 8029 8030 \hangindentOpt\relax \parindent0pt\relax 8031 \textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par 8032 8033 \indexspace}} 4.7 Glossary Styles using supertabular environment (glossary-super package) The glossary styles defined in the package use the supertabular environment. 8034 \ProvidesPackage{glossary-super}[2013/11/14 v4.0 (NLCT)] Requires the package: 8035 \RequirePackage{supertabular} \glsdescwidth This is a length that governs the width of the description column. This may already have been defined if has been loaded. 8036 \@ifundefined{glsdescwidth}{% \newlength\glsdescwidth \setlength{\glsdescwidth}{0.6\hsize} 8038 8039 } { } \glspagelistwidth

This is a length that governs the width of the page list column. This may already have been defined if has been loaded.

```
8040 \@ifundefined{glspagelistwidth}{%
     \newlength\glspagelistwidth
8042
     \setlength{\glspagelistwidth}{0.1\hsize}
8043 } { }
```

The super glossary style uses the supertabular environment (it uses lengths desuper fined in the package.)

8044 \newglossarystyle{super}{%

```
Put the glossary in a supertabular environment with two columns and no head or tail:
```

```
8045 \renewenvironment{theglossary}%
8046 {\tablehead{}\tabletail{}%
8047 \begin{supertabular}{lp{\glsdescwidth}}}%
8048 {\end{supertabular}}%
```

Do nothing at the start of the table:

```
8049 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8050 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries put in a row (name in first column, description and page list in second column):

```
8051 \renewcommand{\glossentry}[2]{%
8052 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8053 \glossentrydesc{##1}\glspostdescription\space ##2\tabularnewline
8054 }%
```

Sub entries put in a row (no name, description and page list in second column):

```
8055 \renewcommand{\subglossentry}[3]{%
8056 &
8057 \glssubentryitem{##2}%
8058 \glstarget{##2}{\strut}\glosentrydesc{##2}\glspostdescription\space
8059 ##3\tabularnewline
8060 }%
```

Blank row between groups:

```
8061 \renewcommand*{\glsgroupskip}{%
8062 \ifglsnogroupskip\else & \tabularnewline\fi}%
8063}
```

superborder The superborder style is like the above, but with horizontal and vertical lines:

```
8064 \newglossarystyle{superborder}{%
```

Base it on the glostylesuper style:

```
8065 \setglossarystyle{super}%
```

Put the glossary in a supertabular environment with two columns and a horizontal line in the head and tail:

```
8066 \renewenvironment{theglossary}%
8067 {\tablehead{\hline}\tabletail{\hline}%
8068 \begin{supertabular}{|1|p{\glsdescwidth}|}}%
8069 {\end{supertabular}}%
8070}
```

superheader The superheader style is like the super style, but with a header:

```
8071 \newglossarystyle{superheader}{%
```

Base it on the glostylesuper style:

```
8072 \setglossarystyle{super}%
```

Put the glossary in a supertabular environment with two columns, a header and no tail:

superheaderborder The superheaderborder style is like the super style but with a header and border:

8080 \newglossarystyle{superheaderborder}{%

Base it on the glostylesuper style:

```
8081 \setglossarystyle{super}%
```

Put the glossary in a supertabular environment with two columns, a header and horizontal lines above and below the table:

```
8082 \renewenvironment{theglossary}%
8083 {\tablehead{\hline\bfseries \entryname &
8084 \bfseries \descriptionname\tabularnewline\hline}%
8085 \tabletail{\hline}
8086 \begin{supertabular}{|1|p{\glsdescwidth}|}}%
8087 {\end{supertabular}}%
```

super3col The super3col style is like the super style, but with 3 columns:

```
8089 \newglossarystyle{super3col}{%
```

Put the glossary in a supertabular environment with three columns and no head or tail:

```
8090 \renewenvironment{theglossary}%
8091 {\tablehead{}\tabletail{}%
8092 \begin{supertabular}{lp{\glsdescwidth}p{\glspagelistwidth}}}%
8093 {\end{supertabular}}%
```

Do nothing at the start of the table:

```
8094 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8095 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
8096 \renewcommand{\glossentry}[2]{%
8097 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8098 \glossentrydesc{##1} & ##2\tabularnewline
8099 }%
```

Sub entries on a row (no name, description in second column, page list in last column):

```
\renewcommand{\subglossentry}[3]{%
8100
8101
8102
         \glssubentryitem{##2}%
8103
         \glstarget{##2}{\strut}\glossentrydesc{##2} &
8104
         ##3\tabularnewline
     }%
8105
 Blank row between groups:
     \renewcommand*{\glsgroupskip}{%
8107
        \ifglsnogroupskip\else & &\tabularnewline\fi}%
8108 }
```

super3colborder The super3colborder style is like the super3col style, but with a border:

8109 \newglossarystyle{super3colborder}{%

Base it on the glostylesuper3col style:

```
8110 \setglossarystyle{super3col}%
```

Put the glossary in a supertabular environment with three columns and a horizontal line in the head and tail:

```
8111 \renewenvironment{theglossary}%
8112 {\tablehead{\hline}\tabletail{\hline}%
8113 \begin{supertabular}{|l|p{\glsdescwidth}|p{\glspagelistwidth}|}}%
8114 {\end{supertabular}}%
8115}
```

super3colheader The super3colheader style is like the super3col style but with a header row:

8116 \newglossarystyle{super3colheader}{%

Base it on the glostylesuper3col style:

8117 \setglossarystyle{super3col}%

Put the glossary in a supertabular environment with three columns, a header and no tail:

```
8118 \renewenvironment{theglossary}%
8119 {\tablehead{\bfseries\entryname&\bfseries\descriptionname&
8120 \bfseries\pagelistname\tabularnewline}\tabletail{}%
8121 \begin{supertabular}{\pf\glsdescwidth}p{\glspagelistwidth}}}%
8122 {\end{supertabular}}%
8123}
```

per3colheaderborder

The super3colheaderborder style is like the super3col style but with a header and border:

```
8124 \newglossarystyle{super3colheaderborder}{%
```

Base it on the glostylesuper3colborder style:

8125 \setglossarystyle{super3colborder}%

Put the glossary in a supertabular environment with three columns, a header with horizontal lines and a horizontal line in the tail:

```
8126 \renewenvironment{theglossary}%
8127 {\tablehead{\hline
8128 \bfseries\entryname&\bfseries\descriptionname&
8129 \bfseries\pagelistname\tabularnewline\hline}%
8130 \tabletail{\hline}%
8131 \begin{supertabular}{|l|p{\glsdescwidth}|p{\glspagelistwidth}|}}%
8132 {\end{supertabular}}%
8133}
```

super4col The super4col glossary style has four columns, where the third column contains the value of the corresponding symbol key used when that entry was defined.

```
8134 \newglossarystyle{super4col}{%
```

Put the glossary in a supertabular environment with four columns and no head or tail:

```
8135 \renewenvironment{theglossary}%
8136 {\tablehead{}\tabletail{}%
8137 \begin{supertabular}{1111}}{%
8138 \end{supertabular}}%
```

Do nothing at the start of the table:

```
8139 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
3140 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a row with the name in the first column, description in second column, symbol in third column and page list in last column:

```
8141 \renewcommand{\glossentry}[2]{%
8142 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8143 \glossentrydesc{##1} &
8144 \glossentrysymbol{##1} & ##3\tabularnewline
8145 }%
```

Sub entries on a row with no name, the description in the second column, symbol in third column and page list in last column:

```
8146 \renewcommand{\subglossentry}[3]{%
8147  &
8148  \glssubentryitem{##2}%
8149  \glstarget{##2}{\strut}\glossentrydesc{##2} &
8150  \glossentrysymbol{##2} & ##3\tabularnewline
8151 }%
```

Blank row between groups:

```
8152 \renewcommand*{\glsgroupskip}{%
8153 \ifglsnogroupskip\else & & &\tabularnewline\fi}%
8154}
```

super4colheader The super4colheader style is like the super4col but with a header row.

8155 \newglossarystyle{super4colheader}{%

Base it on the glostylesuper4col style:

```
8156 \setglossarystyle{super4col}%
```

Put the glossary in a supertabular environment with four columns, a header and no tail:

```
8157 \renewenvironment{theglossary}%
8158 {\tablehead{\bfseries\entryname&\bfseries\descriptionname&
8159 \bfseries\symbolname &
8160 \bfseries\pagelistname\tabularnewline}%
8161 \tabletail{}%
8162 \begin{supertabular}{1111}}%
8163 {\end{supertabular}}%
8164}
```

super4colborder The super4colborder style is like the super4col but with a border.

8165 \newglossarystyle{super4colborder}{%

Base it on the glostylesuper4col style:

```
8166 \setglossarystyle{super4col}%
```

Put the glossary in a supertabular environment with four columns and a horizontal line in the head and tail:

```
8167 \renewenvironment{theglossary}%
8168 {\tablehead{\hline}\tabletail{\hline}%
8169 \begin{supertabular}{|1|1|1|1}}%
8170 {\end{supertabular}}%
8171}
```

per4colheaderborder

The super4colheaderborder style is like the super4col but with a header and border.

8172 \newglossarystyle{super4colheaderborder}{%

Base it on the glostylesuper4col style:

```
8173 \setglossarystyle{super4col}%
```

Put the glossary in a supertabular environment with four columns and a header bordered by horizontal lines and a horizontal line in the tail:

```
8174 \renewenvironment{theglossary}%
8175 {\tablehead{\hline\bfseries\entryname&\bfseries\descriptionname&
8176 \bfseries\symbolname &
8177 \bfseries\pagelistname\tabularnewline\hline}%
8178 \tabletail{\hline}%
8179 \begin{supertabular}{|1|1|1|1}}%
8180 {\end{supertabular}}%
8181}
```

altsuper4col The altsuper4col glossary style is like super4col but has provision for multiline descriptions.

```
8182 \newglossarystyle{altsuper4col}{%
```

Base it on the glostylesuper4col style:

```
8183 \setglossarystyle{super4col}%
```

Put the glossary in a supertabular environment with four columns and no head or tail:

```
8184 \renewenvironment{theglossary}%
8185 {\tablehead{}\tabletail{}%
8186 \begin{supertabular}{lp{\glsdescwidth}lp{\glspagelistwidth}}}%
8187 {\end{supertabular}}%
8188}
```

altsuper4colheader

The altsuper4colheader style is like the altsuper4col but with a header row.

```
8189 \newglossarystyle{altsuper4colheader}{%
```

Base it on the glostylesuper4colheader style:

```
8190 \setglossarystyle{super4colheader}%
```

Put the glossary in a supertabular environment with four columns, a header and no tail:

```
8191 \renewenvironment{theglossary}%
8192 {\tablehead{\bfseries\entryname&\bfseries\descriptionname&}
8193 \bfseries\symbolname &
8194 \bfseries\pagelistname\tabularnewline}\tabletail{}%
8195 \begin{supertabular}{lp{\glsdescwidth}lp{\glspagelistwidth}}}%
8196 {\end{supertabular}}%
8197}
```

altsuper4colborder

The altsuper4colborder style is like the altsuper4col but with a border.

```
{\tt 8198 \backslash newglossarystyle \{altsuper 4 colborder\} \{\% }
```

Base it on the glostylesuper4colborder style:

```
8199 \setglossarystyle{super4colborder}%
```

Put the glossary in a supertabular environment with four columns and a horizontal line in the head and tail:

```
8200 \renewenvironment{theglossary}%
8201 {\tablehead{\hline}\tabletail{\hline}%
8202 \begin{supertabular}%
8203 {|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}}%
8204 {\end{supertabular}}%
8205}
```

per4colheaderborder

The altsuper4colheaderborder style is like the altsuper4col but with a header and border

8206 \newglossarystyle{altsuper4colheaderborder}{%

Base it on the glostylesuper4colheaderborder style:

```
8207 \setglossarystyle{super4colheaderborder}%
```

Put the glossary in a supertabular environment with four columns and a header bordered by horizontal lines and a horizontal line in the tail:

```
\renewenvironment{theglossary}%
8208
       {\tablehead{\hline
8209
8210
           \bfseries\entryname &
           \bfseries\descriptionname &
8211
           \bfseries\symbolname &
8212
           \bfseries\pagelistname\tabularnewline\hline}%
8213
8214
         \tabletail{\hline}%
8215
         \begin{supertabular}%
           {|||p{\glsdescwidth}|||p{\glspagelistwidth}|}}%
8216
       {\end{supertabular}}%
8217
8218 }
```

# 4.8 Glossary Styles using supertabular environment (glossary-superragged package)

The glossary styles defined in the package use the supertabular environment. These styles are like those provided by the package, except that the multiline columns have ragged right justification.

```
8219\ProvidesPackage{glossary-superragged}[2013/11/14 v4.0 (NLCT)]
Requires the package:
8220\RequirePackage{array}
Requires the package:
```

8221 \RequirePackage{supertabular}

\glsdescwidth This is a length that governs the width of the description column. This may already have been defined.

```
8222 \@ifundefined{glsdescwidth}{%
8223 \newlength\glsdescwidth
8224 \setlength{\glsdescwidth}{0.6\hsize}
8225}{}
```

\glspagelistwidth This is a length that governs the width of the page list column. This may already have been defined.

```
8226\@ifundefined{glspagelistwidth}{%
8227 \newlength\glspagelistwidth
8228 \setlength{\glspagelistwidth}{0.1\hsize}
8229}{}
```

superragged The superragged glossary style uses the supertabular environment.

8230 \newglossarystyle{superragged}{%

```
Put the glossary in a supertabular environment with two columns and no head or tail:
```

```
8231 \renewenvironment{theglossary}%
8232 {\tablehead{}\tabletail{}%
8233 \begin{supertabular}{\raggedright}p{\glsdescwidth}}}%
8234 {\end{supertabular}}%
```

Do nothing at the start of the table:

```
8235 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8236 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries put in a row (name in first column, description and page list in second column):

```
8237 \renewcommand{\glossentry}[2]{%
8238 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8239 \glossentrydesc{##1}\glspostdescription\space ##2%
8240 \tabularnewline
8241 }%
```

Sub entries put in a row (no name, description and page list in second column):

```
8242 \renewcommand{\subglossentry}[3]{%
8243     &
8244     \glssubentryitem{##2}%
8245     \glstarget{##2}{\strut}\glossentrydesc{##2}\glspostdescription\space
8246     ##3%
8247     \tabularnewline
8248 }%
```

Blank row between groups:

```
% \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & \tabularnewline\fi}% 8250}
```

superraggedborder

The superraggedborder style is like the above, but with horizontal and vertical lines:

8251 \newglossarystyle{superraggedborder}{%

Base it on the glostylesuperragged style:

```
8252 \setglossarystyle{superragged}%
```

Put the glossary in a supertabular environment with two columns and a horizontal line in the head and tail:

```
8253 \renewenvironment{theglossary}%
8254 {\tablehead{\hline}\tabletail{\hline}%
8255 \begin{supertabular}{|1|>{\raggedright}p{\glsdescwidth}|}}%
8256 {\end{supertabular}}%
```

superraggedheader

The superraggedheader style is like the super style, but with a header:

8258 \newglossarystyle{superraggedheader}{%

Base it on the glostylesuperragged style:

```
8259 \setglossarystyle{superragged}%
```

Put the glossary in a supertabular environment with two columns, a header and no tail:

```
8260 \renewenvironment{theglossary}%
8261 {\tablehead{\bfseries \entryname & \bfseries \descriptionname
8262 \tabletailenewline}%
8263 \tabletail{}%
8264 \begin{supertabular}{1>{\raggedright}p{\glsdescwidth}}}%
8265 {\end{supertabular}}%
8266}
```

rraggedheaderborder

The superraggedheaderborder style is like the superragged style but with a header and border:

8267 \newglossarystyle{superraggedheaderborder}{%

Base it on the glostylesuper style:

```
8268 \setglossarystyle{superragged}%
```

Put the glossary in a supertabular environment with two columns, a header and horizontal lines above and below the table:

```
8269 \renewenvironment{theglossary}%
8270 {\tablehead{\hline\bfseries \entryname &
8271 \bfseries \descriptionname\tabularnewline\hline}%
8272 \tabletail{\hline}
8273 \begin{supertabular}{|1|>{\raggedright}p{\glsdescwidth}|}}%
8274 {\end{supertabular}}%
```

superragged3col

The superragged3col style is like the superragged style, but with 3 columns:

```
8276 \newglossarystyle{superragged3col}{%
```

Put the glossary in a supertabular environment with three columns and no head or tail:

```
8277 \renewenvironment{theglossary}%
8278 {\tablehead{}\tabletail{}%
8279 \begin{supertabular}{\raggedright}p{\glsdescwidth}%
8280 >{\raggedright}p{\glspagelistwidth}}}%
8281 {\end{supertabular}}%
```

Do nothing at the start of the table:

```
8282 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8283 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
8284 \renewcommand{\glossentry}[2]{%
8285 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
```

```
8286 \glossentrydesc{##1} &
8287 ##2\tabularnewline
8288 }%
```

Sub entries on a row (no name, description in second column, page list in last column):

```
8289 \renewcommand{\subglossentry}[3]{%
8290 &
8291 \glssubentryitem{##2}%
8292 \glstarget{##2}{\strut}\glossentrydesc{##2} &
8293 ##3\tabularnewline
8294 }%
```

Blank row between groups:

```
% % \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & &\tabularnewline\fi}% $296}
```

perragged3colborder

The superragged3colborder style is like the superragged3col style, but with a border:

8297 \newglossarystyle{superragged3colborder}{%

Base it on the glostylesuperragged3col style:

```
8298 \setglossarystyle{superragged3col}%
```

Put the glossary in a supertabular environment with three columns and a horizontal line in the head and tail:

```
8299 \renewenvironment{theglossary}%
8300 {\tablehead{\hline}\tabletail{\hline}%
8301 \begin{supertabular}{|1|>{\raggedright}p{\glsdescwidth}|%
8302 >{\raggedright}p{\glspagelistwidth}|}%
8303 {\end{supertabular}}%
8304}
```

perragged3colheader

The superragged3colheader style is like the superragged3col style but with a header row:

8305 \newglossarystyle{superragged3colheader}{%

Base it on the glostylesuperragged3col style:

```
8306 \setglossarystyle{superragged3col}%
```

Put the glossary in a supertabular environment with three columns, a header and no tail:

```
8307 \renewenvironment{theglossary}%
8308 {\tablehead{\bfseries\entryname&\bfseries\descriptionname&
8309 \bfseries\pagelistname\tabularnewline}\tabletail{}%
8310 \begin{supertabular}{\raggedright}p{\glsdescwidth}%
8311 >{\raggedright}p{\glspagelistwidth}}}%
8312 {\end{supertabular}}%
8313}
```

ght3colheaderborder

The superragged3colheaderborder style is like the superragged3col style but with a header and border:

8314 \newglossarystyle{superragged3colheaderborder}{%

Base it on the glostylesuperragged3colborder style:

```
8315 \setglossarystyle{superragged3colborder}%
```

Put the glossary in a supertabular environment with three columns, a header with horizontal lines and a horizontal line in the tail:

```
\renewenvironment{theglossary}%
8316
       {\tablehead{\hline
8317
8318
            \bfseries\entryname&\bfseries\descriptionname&
            \bfseries\pagelistname\tabularnewline\hline}%
8319
        \tabletail{\hline}%
8320
        \begin{supertabular}{|1|>{\raggedright}p{\glsdescwidth}|%
8321
8322
          >{\raggedright}p{\glspagelistwidth}|}}%
8323
       {\end{supertabular}}%
8324 }
```

altsuperragged4col

The altsuperragged4col glossary style is like altsuper4col style in the package but uses ragged right formatting in the description and page list columns.

```
8325 \newglossarystyle{altsuperragged4col}{%
```

Put the glossary in a supertabular environment with four columns and no head or tail:

```
8326 \renewenvironment{theglossary}%
8327 {\tablehead{}\tabletail{}%
8328 \begin{supertabular}{1>{\raggedright}p{\glsdescwidth}1%
8329 >{\raggedright}p{\glspagelistwidth}}}%
8330 {\end{supertabular}}%
```

Do nothing at the start of the table:

```
8331 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8332 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries on a row with the name in the first column, description in second column, symbol in third column and page list in last column:

```
8333 \renewcommand{\glossentry}[2]{%
8334 \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8335 \glossentrydesc{##1} &
8336 \glossentrysymbol{##1} & ##2\tabularnewline
8337 }%
```

Sub entries on a row with no name, the description in the second column, symbol in third column and page list in last column:

```
8338 \renewcommand{\subglossentry}[3]{%
8339 &
8340 \glssubentryitem{##2}%
8341 \glstarget{##2}{\strut}\glossentrydesc{##2} &
```

```
8342 \glossentrysymbol{##2} & ##3\tabularnewline
8343 }%
```

Blank row between groups:

```
% \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & & &\tabularnewline\fi}% \ 8345}
```

perragged4colheader

The altsuperragged4colheader style is like the altsuperragged4col style but with a header row.

 $8346 \verb| newglossarystyle{altsuperragged4colheader}{ \%}$ 

Base it on the glostylealtsuperragged4col style:

```
8347 \setglossarystyle{altsuperragged4col}%
```

Put the glossary in a supertabular environment with four columns, a header and no tail:

```
\renewenvironment{theglossary}%
{\tablehead{\bfseries\entryname&\bfseries\descriptionname&

\bfseries\symbolname &

\bfseries\pagelistname\tabularnewline}\tabletail{}%

\begin{supertabular}{1>{\raggedright}p{\glsdescwidth}1%

\sistem \{\raggedright}p{\glspagelistwidth}}}%

\{\raggedright}p\{\glspagelistwidth}}}%

\{\raggedright}p\{\glspagelistwidth}}}%

\{\raggedright}p\{\glspagelistwidth}}}%

\{\raggedright}p\{\glspagelistwidth}}\}%

\{\raggedright}p\{\raggedright}p\{\raggedright}p\{\raggedright}p\{\raggedright}p\{\raggedright}p\{\raggedright}p\{\raggedright}p\{\r
```

perragged4colborder

The altsuperragged4colborder style is like the altsuperragged4col style but with a border.

 $8356 \verb| newglossarystyle{altsuperragged4colborder}{\%} \\$ 

Base it on the glostylealtsuperragged4col style:

```
8357 \setglossarystyle{altsuper4col}%
```

Put the glossary in a supertabular environment with four columns and a horizontal line in the head and tail:

```
8358 \renewenvironment{theglossary}%
8359 {\tablehead{\hline}\tabletail{\hline}%
8360 \begin{supertabular}%
8361 {|1|>{\raggedright}p{\glsdescwidth}|1|%
8362 >{\raggedright}p{\glspagelistwidth}|}%
8363 {\end{supertabular}}%
8364}
```

ged4colheaderborder

The altsuperragged4colheaderborder style is like the altsuperragged4col style but with a header and border.

8365 \newglossarystyle{altsuperragged4colheaderborder}{%

Base it on the glostylealtsuperragged4col style:

```
8366 \setglossarystyle{altsuperragged4col}%
```

Put the glossary in a supertabular environment with four columns and a header bordered by horizontal lines and a horizontal line in the tail:

```
\renewenvironment{theglossary}%
8367
       {\tablehead{\hline
8368
8369
           \bfseries\entryname &
8370
           \bfseries\descriptionname &
           \bfseries\symbolname &
8371
           \bfseries\pagelistname\tabularnewline\hline}%
8372
         \tabletail{\hline}%
8373
         \begin{supertabular}%
8374
           {|1|>{\raggedright}p{\glsdescwidth}|1|%
8375
              >{\raggedright}p{\glspagelistwidth}|}}%
8376
       {\end{supertabular}}%
8377
8378 }
```

# 4.9 Tree Styles (glossary-tree.sty)

The style file defines glossary styles that have a tree-like structure. These are designed for hierarchical glossaries.

```
8379 \ProvidesPackage{glossary-tree} [2014/03/06 v4.04 (NLCT)]
```

The index glossary style is similar in style to the way indices are usually typeset using \item, \subitem and \subsubitem. The entry name is set in bold. If an entry has a symbol, it is placed in brackets after the name. Then the description is displayed, followed by the number list. This style allows up to three levels.

```
8380 \newglossarystyle{index}{%
```

Set the paragraph indentation and skip and define \item to be the same as that used by theindex:

```
8381 \renewenvironment{theglossary}%
8382 {\setlength{\parindent}{0pt}%
8383 \setlength{\parskip}{0pt plus 0.3pt}%
8384 \let\item\@idxitem}%
8385 {\par}%
```

Do nothing at the start of the environment:

```
8386 \renewcommand*{\glossaryheader}{}%
```

No group headers:

```
8387 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entry starts a new item with the name in bold followed by the symbol in brackets (if it exists), the description and the page list.

```
8388 \renewcommand*{\glossentry}[2]{%
8389 \item\glsentryitem{##1}\textbf{\glstarget{##1}{\glossentryname{##1}}}%
8390 \ifglshassymbol{##1}{\space(\glossentrysymbol{##1})}{}%
8391 \space \glossentrydesc{##1}\glspostdescription\space ##2%
8392 }%
```

Sub entries: level 1 entries use \subitem, levels greater than 1 use \subsubitem. The level (##1) shouldn't be 0, as that's catered by \glossentry, but for completeness, if the level is 0, \item is used. The name is put in bold, followed by the symbol in brackets (if it exists), the description and the page list.

```
\renewcommand{\subglossentry}[3]{%
        \ifcase##1\relax
8394
8395
          % level 0
          \item
8396
8397
        \or
          % level 1
8398
          \subitem
8399
          \glssubentryitem{##2}%
8400
8401
        \else
8402
          % all other levels
          \subsubitem
8403
        \fi
8404
        \textbf{\glstarget{##2}{\glossentryname{##2}}}%
8405
        \ifglshassymbol{##2}{\space(\glossentrysymbol{##2})}{}%
8406
        \space\glossentrydesc{##2}\glspostdescription\space ##3%
8407
     }%
8408
```

Vertical gap between groups is the same as that used by indices:

```
8409 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}}
```

indexgroup The indexgroup style is like the index style but has headings.

```
8410 \newglossarystyle{indexgroup}{%
```

Base it on the glostyleindex style:

```
8411 \setglossarystyle{index}%
```

Add a heading for each group. This puts the group's title in bold followed by a vertical gap.

```
8412 \renewcommand*{\glsgroupheading}[1]{%
8413 \item\textbf{\glsgetgrouptitle{##1}}\indexspace}%
8414}
```

indexhypergroup The indexhypergroup style is like the indexgroup style but has hyper navigation.

```
8415 \newglossarystyle{indexhypergroup}{%
```

Base it on the glostyleindex style:

```
3416 \setglossarystyle{index}%
```

Put navigation links to the groups at the start of the glossary:

```
8417 \renewcommand*{\glossaryheader}{\%
8418 \item\textbf{\glsnavigation}\indexspace}\%
```

Add a heading for each group (with a target). The group's title is in bold followed by a vertical gap.

```
8419 \renewcommand*{\glsgroupheading}[1]{%
8420 \item\textbf{\glsnavhypertarget{##1}}\glsgetgrouptitle{##1}}}%
```

```
8421 \indexspace}%
8422}
```

tree The tree glossary style is similar in style to the index style, but can have arbitrary levels

```
8423 \newglossarystyle{tree}{%
```

Set the paragraph indentation and skip:

```
8424 \renewenvironment{theglossary}%

8425 {\setlength{\parindent}{0pt}%

8426 \setlength{\parskip}{0pt plus 0.3pt}}%

8427 {}%
```

Do nothing at the start of the theglossary environment:

```
8428 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8429 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries: name in bold, followed by symbol in brackets (if it exists), the description and the page list:

```
8430 \renewcommand{\glossentry}[2]{%
8431 \hangindent0pt\relax
8432 \parindent0pt\relax
8433 \glsentryitem{##1}\textbf{\glstarget{##1}{\glossentryname{##1}}}%
8434 \ifglshassymbol{##1}{\space(\glossentrysymbol{##1})}{}%
8435 \space\glossentrydesc{##1}\glspostdescription\space##2\par
8436 }%
```

Sub entries: level  $\langle n \rangle$  is indented by  $\langle n \rangle$  times \glstreeindent. The name is in bold, followed by the symbol in brackets (if it exists), the description and the page list.

```
\renewcommand{\subglossentry}[3]{%
8437
8438
       \hangindent##1\glstreeindent\relax
       \parindent##1\glstreeindent\relax
8439
       \ifnum##1=1\relax
8440
          \glssubentryitem{##2}%
8441
       \fi
8442
       \textbf{\glstarget{##2}{\glossentryname{##2}}}%
8443
       \ifglshassymbol{##2}{\space(\glossentrysymbol{##2})}{}%
8444
8445
       \space\glossentrydesc{##2}\glspostdescription\space ##3\par
8446
```

Vertical gap between groups is the same as that used by indices:

```
3447 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}}
```

treegroup Like the tree style but the glossary groups have headings.

```
8448 \newglossarystyle{treegroup}{%
```

Base it on the glostyletree style:

```
8449 \setglossarystyle{tree}%
```

```
Each group has a heading (in bold) followed by a vertical gap):
                      \renewcommand{\glsgroupheading}[1]{\par
                8451
                        \noindent\textbf{\glsgetgrouptitle{##1}}\par\indexspace}%
                8452 }
                 The treehypergroup style is like the treegroup style, but has a set of links to the
treehypergroup
                  groups at the start of the glossary.
                8453 \newglossarystyle{treehypergroup}{%
                  Base it on the glostyletree style:
                      \setglossarystyle{tree}%
                  Put navigation links to the groups at the start of the theglossary environment:
                      \renewcommand*{\glossaryheader}{%
                8455
                        \par\noindent\textbf{\glsnavigation}\par\indexspace}%
                8456
                  Each group has a heading (in bold with a target) followed by a vertical gap):
                      \renewcommand*{\glsgroupheading}[1]{%
                8457
                        \par\noindent
                8458
                        \textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par
                8459
                8460
                        \indexspace}%
                8461 }
\glstreeindent Length governing left indent for each level of the tree style.
                8462 \newlength\glstreeindent
                8463\setlength{\glstreeindent}{10pt}
                 The treenoname glossary style is like the tree style, but doesn't print the name
    treenoname
                  or symbol for sub-levels.
                8464 \newglossarystyle{treenoname}{%
                  Set the paragraph indentation and skip:
                      \renewenvironment{theglossary}%
                8465
                8466
                        {\setlength{\parindent}{0pt}%
                8467
                         \setlength{\parskip}{Opt plus 0.3pt}}%
                        {}%
                8468
                  No header:
                      \verb|\renewcommand*{\glossaryheader}{}|%
                  No group headings:
                      \renewcommand*{\glsgroupheading}[1]{}%
                  Main (level 0) entries: the name is in bold, followed by the symbol in brackets
                  (if it exists), the description and the page list.
                      \renewcommand{\glossentry}[2]{%
                8471
                        \hangindentOpt\relax
                8472
                        \parindent0pt\relax
                8473
```

\ifglshassymbol{##1}{\space(\glossentrysymbol{##1})}{}%

\space\glossentrydesc{##1}\glspostdescription\space##2\par

8474

8475 8476

8477

}%

\glsentryitem{##1}\textbf{\glstarget{##1}{\glossentryname{##1}}}%

Sub entries: level  $\langle n \rangle$  is indented by  $\langle n \rangle$  times \glstreeindent. The name and symbol are omitted. The description followed by the page list are displayed.

```
\renewcommand{\subglossentry}[3]{%
                              \hangindent##1\glstreeindent\relax
                     8479
                              \parindent##1\glstreeindent\relax
                     8480
                     8481
                              \ifnum##1=1\relax
                                \glssubentryitem{##2}%
                     8482
                     8483
                              \glstarget{##2}{\strut}%
                     8484
                              \glossentrydesc{##2}\glspostdescription\space##3\par
                     8485
                     8486
                       Vertical gap between groups is the same as that used by indices:
                     8487
                            \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}%
                     8488 }
                      Like the treenoname style but the glossary groups have headings.
    treenonamegroup
                     8489 \newglossarystyle{treenonamegroup}{%
                       Base it on the glostyletreenoname style:
                           \setglossarystyle{treenoname}%
                       Give each group a heading:
                            \renewcommand{\glsgroupheading}[1]{\par
                              \noindent\textbf{\glsgetgrouptitle{##1}}\par\indexspace}%
                     8492
                     8493 }
                       The treenonamehypergroup style is like the treenonamegroup style, but has a set
reenonamehypergroup
                       of links to the groups at the start of the glossary.
                     8494 \newglossarystyle{treenonamehypergroup}{%
                       Base it on the glostyletreenoname style:
                           \setglossarystyle{treenoname}%
                       Put navigation links to the groups at the start of the theglossary environment:
                     8496
                            \renewcommand*{\glossaryheader}{%
                              \par\noindent\textbf{\glsnavigation}\par\indexspace}%
                     8497
                       Each group has a heading (in bold with a target) followed by a vertical gap):
                     8498
                            \renewcommand*{\glsgroupheading}[1]{%
                              \par\noindent
                     8499
                              \textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par
                     8500
                              \indexspace}%
                     8501
                     8502 }
                       \glue{constraint} \langle level \rangle ] \langle text \rangle  sets the widest text for the given level. It is
      \glssetwidest
                       used by the alttree glossary styles to determine the indentation of each level.
                     8503 \newcommand*{\glssetwidest}[2][0]{%
                           \expandafter\def\csname @glswidestname\romannumeral#1\endcsname{%
                     8504
                     8505
                     8506 }
```

```
Initialise \@glswidestname.
\@glswidestname
                 8507 \newcommand*{\@glswidestname}{}
                  The alttree glossary style is similar in style to the tree style, but the inden-
        alttree
                   tation is obtained from the width of \@glswidestname which is set using
                   \glssetwidest.
                 8508 \newglossarystyle{alttree}{%
                   Redefine the glossary environment.
                       \renewenvironment{theglossary}%
                 8509
                         {\def\@gls@prevlevel{-1}%
                 8510
                 8511
                          \mbox{}\par}%
                         {\pi}{\pi}
                 8512
                   Set the header and group headers to nothing.
                       \renewcommand*{\glossaryheader}{}%
                 8513
                       \renewcommand*{\glsgroupheading}[1]{}%
                 8514
                   Redefine the way that the level 0 entries are displayed.
                 8515
                       \renewcommand{\glossentry}[2]{%
                         \ifnum\@gls@prevlevel=0\relax
                 8516
                 8517
                         \else
                   Find out how big the indentation should be by measuring the widest entry.
                            \settowidth{\glstreeindent}{\textbf{\@glswidestname\space}}%
                 8518
                   Set the hangindent and paragraph indent.
                           \hangindent\glstreeindent
                 8520
                           \parindent\glstreeindent
                 8521
                   Put the name to the left of the paragraph block.
                         \makebox[Opt][r]{\makebox[\glstreeindent][1]{%
                 8522
                            \glsentryitem{##1}\textbf{\glstarget{##1}{\glossentryname{##1}}}}}%
                 8523
                   If the symbol is missing, ignore it, otherwise put it in brackets.
                         \ifglshassymbol{##1}{\space(\glossentrysymbol{##1})}{}%
                 8524
                   Do the description followed by the description terminator and location list.
                         \glossentrydesc{##1}\glspostdescription \space ##2\par
                 8525
                   Set the previous level to 0.
                         \def\@gls@prevlevel{0}%
                 8526
                       }%
                 8527
                   Redefine the way sub-entries are displayed.
                       \renewcommand{\subglossentry}[3]{%
```

Increment and display the sub-entry counter if this is a level 1 entry and the sub-entry counter is in use.

```
8529 \ifnum##1=1\relax
8530 \glssubentryitem{##2}%
8531 \fi
```

If the level hasn't changed, keep the same settings, otherwise adjust \glstreeindent accordingly.

```
8532 \ifnum\@gls@prevlevel=##1\relax
8533 \else
```

Compute the widest entry for this level, or for level 0 if not defined for this level. Store in \gls@tmplen

Determine if going up or down a level

```
8538 \ifnum\@gls@prevlevel<##1\relax
```

Depth has increased, so add the width of the widest entry to \glstreeindent.

Depth has decreased, so subtract width of the widest entry from the previous level to \glstreeindent. First determine the width of the widest entry for the previous level and store in \glstreeindent.

```
% \@ifundefined{@glswidestname\romannumeral\@gls@prevlevel}{% \settowidth{\glstreeindent}{\kappace}}}{\kappace} \cdot \settowidth{\glstreeindent}{\kappace}}}{\kappace} \cdot \settowidth{\glstreeindent}{\kappace}} \cdot \cdot \settowidth{\glstreeindent}{\kappace}}}{\kappace}}}{\kappace}}}{\kappace}}}{\kappace}}}{\kappace}}}{\kappace}}}{\kappace}}
```

Subtract this length from the previous level's paragraph indent and set to \glstreeindent.

Set the hanging indentation.

```
8553 \hangindent\glstreeindent
```

Put the name to the left of the paragraph block

```
% \makebox[0pt][r]{\makebox[\gls@tmplen][1]{\% \textbf{\glstarget{\#2}{\glossentryname{\#2}}}}\%
```

If the symbol is missing, ignore it, otherwise put it in brackets.

```
8556 \ifglshassymbol{##2}{\space(\glossentrysymbol{##2})}{}%
```

Do the description followed by the description terminator and location list.

```
8557 \glossentrydesc{##2}\glspostdescription\space ##3\par
```

```
\def\@gls@prevlevel{##1}%
                         }%
                   8559
                     Vertical gap between groups is the same as that used by indices:
                         \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}%
                   8561 }
                    Like the alttree style but the glossary groups have headings.
     alttreegroup
                   8562 \newglossarystyle{alttreegroup}{%
                     Base it on the glostylealttree style:
                         \setglossarystyle{alttree}%
                     Give each group a heading.
                         \renewcommand{\glsgroupheading}[1]{\par
                   8565
                            \def\@gls@prevlevel{-1}%
                            \hangindentOpt\relax
                   8566
                   8567
                            \parindent0pt\relax
                   8568
                            \textbf{\glsgetgrouptitle{##1}}\par\indexspace}%
                   8569 }
                     The alttreehypergroup style is like the alttreegroup style, but has a set of links to
alttreehypergroup
                     the groups at the start of the glossary.
                   8570 \newglossarystyle{alttreehypergroup}{%
                     Base it on the glostylealttree style:
                         \setglossarystyle{alttree}%
                     Put the navigation links in the header
                   8572
                         \renewcommand*{\glossaryheader}{%
                   8573
                            \par
                            \def\@gls@prevlevel{-1}%
                   8574
                   8575
                            \hangindentOpt\relax
                   8576
                            \parindent0pt\relax
                   8577
                            \textbf{\glsnavigation}\par\indexspace}%
                     Put a hypertarget at the start of each group
                   8578
                         \renewcommand*{\glsgroupheading}[1]{%
                   8579
                            \par
                            \def\@gls@prevlevel{-1}%
                   8580
                            \hangindentOpt\relax
                   8581
                   8582
                            \parindent0pt\relax
```

Set the previous level macro to the current level.

## 5 glossaries-compatible-207

\indexspace}}

8583

8584

Provides compatibility with version 2.07 and below. This uses original glossaries xindy and makeindex formatting, so can be used with old documents that had customized style files, but hyperlinks may not work properly.

\textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par

```
8586 \ProvidesPackage{glossaries-compatible-207}[2011/04/02 v1.0 (NLCT)]
\GlsAddXdyAttribute Adds an attribute in old format.
                    8587\ifglsxindy
                          \renewcommand*\GlsAddXdyAttribute[1]{%
                          \edef\@xdyattributes{\@xdyattributes ^^J \string"#1\string"}%
                    8589
                    8590
                          \expandafter\toks@\expandafter{\@xdylocref}%
                    8591
                          \edef\@xdylocref{\the\toks@ ^^J%
                    8592
                          (markup-locref
                          :open \string"\string~n\string\setentrycounter
                    8593
                            {\noexpand\glscounter}%
                    8594
                            \expandafter\string\csname#1\endcsname
                    8595
                            \expandafter\@gobble\string\{\string" ^^J
                    8596
                          :close \string"\expandafter\@gobble\string\}\string" ^^J
                    8597
                          :attr \string"#1\string")}}
                    8598
                      Only has an effect before \writeist:
                    8599\fi
\GlsAddXdyCounters
                    8600 \renewcommand*\GlsAddXdyCounters[1] {%
                          \GlossariesWarning{\string\GlsAddXdyCounters\space not available
                    8602
                            in compatibility mode.}%
                    8603 }
                     Add predefined attributes
                          \GlsAddXdyAttribute{glsnumberformat}
                    8604
                    8605
                          \GlsAddXdyAttribute{textrm}
                          \GlsAddXdyAttribute{textsf}
                    8606
                          \GlsAddXdyAttribute{texttt}
                    8607
                    8608
                          \GlsAddXdyAttribute{textbf}
                          \GlsAddXdyAttribute{textmd}
                    8609
                    8610
                          \GlsAddXdyAttribute{textit}
                          \GlsAddXdyAttribute{textup}
                    8611
                    8612
                          \GlsAddXdyAttribute{textsl}
                          \GlsAddXdyAttribute{textsc}
                    8613
                          \GlsAddXdyAttribute{emph}
                    8614
                    8615
                          \GlsAddXdyAttribute{glshypernumber}
                    8616
                          \GlsAddXdyAttribute{hyperrm}
                          \GlsAddXdyAttribute{hypersf}
                    8617
                          \GlsAddXdyAttribute{hypertt}
                    8618
                          \GlsAddXdyAttribute{hyperbf}
                    8619
                          \GlsAddXdyAttribute{hypermd}
                    8620
                          \GlsAddXdyAttribute{hyperit}
                    8621
                    8622
                          \GlsAddXdyAttribute{hyperup}
                          \GlsAddXdyAttribute{hypersl}
                    8623
                          \GlsAddXdyAttribute{hypersc}
                    8624
```

\GlsAddXdyAttribute{hyperemph}

8625

8585 \NeedsTeXFormat{LaTeX2e}

```
\GlsAddXdyLocation Restore v2.07 definition:
                    8626\ifglsxindy
                    8627
                           \renewcommand*{\GlsAddXdyLocation}[2]{%
                             \edef\@xdyuserlocationdefs{%
                    8628
                                \@xdyuserlocationdefs ^^J%
                    8629
                                (define-location-class \string"#1\string"^^J\space\space
                    8630
                                \space(#2))
                    8631
                    8632
                             }%
                    8633
                             \edef\@xdyuserlocationnames{%
                                \@xdyuserlocationnames^^J\space\space\space
                    8634
                                \string"#1\string"}%
                    8635
                           }
                    8636
                    8637\fi
   \@do@wrglossary
                    8638 \renewcommand{\@do@wrglossary}[1]{%
                      Determine whether to use xindy or makeindex syntax
                    8639 \ifglsxindy
                      Need to determine if the formatting information starts with a (or) indicating a
                      range.
                    8640
                          \expandafter\@glo@check@mkidxrangechar\@glsnumberformat\@nil
                          \def\@glo@range{}%
                    8641
                          \expandafter\if\@glo@prefix(\relax
                    8642
                            \def\@glo@range{:open-range}%
                    8643
                    8644
                            \expandafter\if\@glo@prefix)\relax
                    8645
                              \def\@glo@range{:close-range}%
                    8646
                    8647
                    8648
                          \fi
                      Get the location and escape any special characters
                          \protected@edef\@glslocref{\theglsentrycounter}%
                    8649
                          \@gls@checkmkidxchars\@glslocref
                    8650
                      Write to the glossary file using xindy syntax.
                    8651
                          \glossary[\csname glo@#1@type\endcsname]{%
                          (indexentry :tkey (\csname glo@#1@index\endcsname)
                    8652
                            :locref \string"\@glslocref\string" \%
                    8653
                            :attr \string"\@glo@suffix\string" \@glo@range
                    8654
                          )
                    8655
                          }%
                    8656
                    8657\else
```

Convert the format information into the format required for makeindex

8658 \@set@glo@numformat\@glo@numfmt\@gls@counter\@glsnumberformat

Write to the glossary file using makeindex syntax.

```
8659 \glossary[\csname glo@#1@type\endcsname]{%
8660 \string\glossaryentry{\csname glo@#1@index\endcsname
```

```
8661
                            \@gls@encapchar\@glo@numfmt}{\theglsentrycounter}}%
                    8662\fi
                    8663 }
\@set@glo@numformat Only had 3 arguments in v2.07
                    8664 \def\@set@glo@numformat#1#2#3{%
                          \expandafter\@glo@check@mkidxrangechar#3\@nil
                    8665
                    8666
                          \protected@edef#1{%
                    8667
                            \@glo@prefix setentrycounter[]{#2}%
                    8668
                            \expandafter\string\csname\@glo@suffix\endcsname
                    8669
                    8670
                          \@gls@checkmkidxchars#1%
                    8671 }
          \writeist Redefine \writeist back to the way it was in v2.07, but change \istfile to
                      \glswrite.
                    8672\ifglsxindy
                          \def\writeist{%
                    8673
                    8674
                            \openout\glswrite=\istfilename
                            \write\glswrite{;; xindy style file created by the glossaries
                    8675
                              package in compatible-2.07 mode}%
                    8676
                            \write\glswrite{;; for document '\jobname' on
                    8677
                              \the\year-\the\month-\the\day}%
                    8678
                            \write\glswrite{^^J; required styles^^J}
                    8679
                            \@for\@xdystyle:=\@xdyrequiredstyles\do{%
                    8680
                               \ifx\@xdystyle\@empty
                    8681
                    8682
                               \else
                                 \protected@write\glswrite{}{(require
                    8683
                                   \string"\@xdystyle.xdy\string")}%
                    8684
                               \fi
                    8685
                            }%
                    8686
                            \write\glswrite{^^J%
                    8687
                               ; list of allowed attributes (number formats)^^J}%
                    8688
                    8689
                            \write\glswrite{(define-attributes ((\@xdyattributes)))}%
                    8690
                            \write\glswrite{^^J; user defined alphabets^^J}%
                            \write\glswrite{\@xdyuseralphabets}%
                    8691
                            \write\glswrite{^^J; location class definitions^^J}%
                    8692
                            \protected@edef\@gls@roman{\@roman{0\string"
                    8693
                              \string"roman-numbers-lowercase\string" :sep \string"}}%
                    8694
                            \@onelevel@sanitize\@gls@roman
                    8695
                    8696
                            \edef\@tmp{\string" \string"roman-numbers-lowercase\string"
                               :sep \string"}%
                    8697
                            \@onelevel@sanitize\@tmp
                    8698
                            \ifx\@tmp\@gls@roman
                    8699
                               \write\glswrite{(define-location-class
                    8700
                                 \string"roman-page-numbers\string"^^J\space\space\space
                    8701
                                 (\string"roman-numbers-lowercase\string")
                    8702
                                 :min-range-length \@glsminrange)}%
                    8703
```

8704

\else

```
8705
           \write\glswrite{(define-location-class
8706
             \string"roman-page-numbers\string"^^J\space\space\space
             (:sep "\@gls@roman")
8707
             :min-range-length \@glsminrange)}%
8708
       \fi
8709
       \write\glswrite{(define-location-class
8710
          \string"Roman-page-numbers\string"^^J\space\space\space
8711
          (\string"roman-numbers-uppercase\string")
8712
             :min-range-length \@glsminrange)}%
8713
       \write\glswrite{(define-location-class
8714
          \string"arabic-page-numbers\string"^^J\space\space\space
8715
8716
          (\string"arabic-numbers\string")
8717
             :min-range-length \@glsminrange)}%
8718
       \write\glswrite{(define-location-class
         \string"alpha-page-numbers\string"^~J\space\space\space
8719
8720
          (\string"alpha\string")
             :min-range-length \@glsminrange)}%
8721
8722
       \write\glswrite{(define-location-class
          \string"Alpha-page-numbers\string"^^J\space\space\space
8723
8724
          (\string"ALPHA\string")
             :min-range-length \@glsminrange)}%
8725
       \write\glswrite{(define-location-class
8726
          \string"Appendix-page-numbers\string"^^J\space\space\space
8727
          (\string"ALPHA\string"
8728
           :sep \string"\@glsAlphacompositor\string"
8729
          \string"arabic-numbers\string")
8730
             :min-range-length \@glsminrange)}%
8731
8732
       \write\glswrite{(define-location-class
          \string"arabic-section-numbers\string"^^J\space\space\space
8733
          (\string"arabic-numbers\string"
8734
           :sep \string"\glscompositor\string"
8735
8736
          \string"arabic-numbers\string")
8737
             :min-range-length \@glsminrange)}%
       \write\glswrite{^^J; user defined location classes}%
8738
       \write\glswrite{\@xdyuserlocationdefs}%
8739
       \write\glswrite{^^J; define cross-reference class^^J}%
8740
       \write\glswrite{(define-crossref-class \string"see\string"
8741
          :unverified )}%
8742
8743
       \write\glswrite{(markup-crossref-list
           :class \string"see\string"^^J\space\space\space
8744
           :open \string\string\glsseeformat\string"
8745
           :close \string"{}\string")}%
8746
       \write\glswrite{^^J; define the order of the location classes}%
8747
       \write\glswrite{(define-location-class-order
8748
8749
           (\@xdylocationclassorder))}%
       \write\glswrite{^^J; define the glossary markup^^J}%
8750
       \write\glswrite{(markup-index^^J\space\space\space
8751
          :open \string"\string
8752
          \glossarysection[\string\glossarytoctitle]{\string
8753
```

```
8754
          \glossarytitle}\string\glossarypreamble\string~n\string\begin
          {theglossary}\string\glossaryheader\string~n\string" ^^J\space
8755
          \space\space:close \string"\expandafter\@gobble
8756
            \string\%\string~n\string
8757
            \end{theglossary}\string\glossarypostamble
8758
            \string~n\string" ^^J\space\space\space
8759
          :tree)}%
8760
       \write\glswrite{(markup-letter-group-list
8761
          :sep \string"\string\glsgroupskip\string^n\string")}%
8762
       \write\glswrite{(markup-indexentry
8763
          :open \string\relax \string\glsresetentrylist
8764
             \string~n\string")}%
8765
8766
       \write\glswrite{(markup-locclass-list :open
8767
        \string"\glsopenbrace\string\glossaryentrynumbers
           \glsopenbrace\string\relax\space \string"^^J\space\space\space
8768
         :sep \string", \string"
8769
         :close \string"\glsclosebrace\glsclosebrace\string")}%
8770
8771
       \write\glswrite{(markup-locref-list
         :sep \string"\string\delimN\space\string")}%
8772
8773
       \write\glswrite{(markup-range
         :sep \string"\string\delimR\space\string")}%
8774
       \@onelevel@sanitize\gls@suffixF
8775
8776
       \@onelevel@sanitize\gls@suffixFF
       \ifx\gls@suffixF\@empty
8777
8778
          \write\glswrite{(markup-range
8779
          :close "\gls@suffixF" :length 1 :ignore-end)}%
8780
8781
       \ifx\gls@suffixFF\@empty
8782
       \else
8783
          \write\glswrite{(markup-range
8784
8785
          :close "\gls@suffixFF" :length 2 :ignore-end)}%
8786
       \write\glswrite{^^J; define format to use for locations^^J}%
8787
       \write\glswrite{\@xdylocref}%
8788
       \write\glswrite{^^J; define letter group list format^^J}%
8789
8790
       \write\glswrite{(markup-letter-group-list
         :sep \string"\string\glsgroupskip\string~n\string")}%
8791
8792
       \write\glswrite{^^J; letter group headings^^J}%
       \write\glswrite{(markup-letter-group
8793
          :open-head \string"\string\glsgroupheading
8794
          \glsopenbrace\string"^^J\space\space\space
8795
8796
          :close-head \string"\glsclosebrace\string")}%
       \write\glswrite{^^J; additional letter groups^^J}%
8797
8798
       \write\glswrite{\@xdylettergroups}%
       \write\glswrite{^^J; additional sort rules^^J}
8799
       \write\glswrite{\@xdysortrules}%
8800
     \noist}
8801
8802\else
```

```
8803
     \edef\@gls@actualchar{\string?}
     \edef\@gls@encapchar{\string|}
8804
     \edef\@gls@levelchar{\string!}
8805
     \edef\@gls@quotechar{\string"}
8806
     \def\writeist{\relax
8807
       \openout\glswrite=\istfilename
8808
       \write\glswrite{\expandafter\@gobble\string\% makeindex style file
8809
         created by the glossaries package}
8810
       \write\glswrite{\expandafter\@gobble\string\% for document
8811
         '\jobname' on \the\year-\the\month-\the\day}
8812
       \write\glswrite{actual '\@gls@actualchar'}
8813
       \write\glswrite{encap '\@gls@encapchar'}
8814
       \write\glswrite{level '\@gls@levelchar'}
8815
8816
       \write\glswrite{quote '\@gls@quotechar'}
       \write\glswrite{keyword \string"\string\\glossaryentry\string"}
8817
       \write\glswrite{preamble \string"\string\\glossarysection[\string
8818
         \\glossarytoctitle]{\string\\glossarytitle}\string
8819
8820
         \\glossarypreamble\string\n\string\\begin{theglossary}\string
         \\glossaryheader\string\n\string"}
8821
       \write\glswrite{postamble \string\\string\\string\n\string
8822
         \\end{theglossary}\string\\glossarypostamble\string\n
8823
         \string"}
8824
       \write\glswrite{group_skip \string\\glsgroupskip\string\n
8825
         \string"}
8826
       \write\glswrite{item_0 \string"\string\\\string\n\string"}
8827
       \write\glswrite{item_1 \string"\string\%\string\n\string"}
8828
       \write\glswrite{item_2 \string"\string\\\string\n\string"}
8829
       \write\glswrite{item_01 \string\%\string\n\string"}
8830
       \write\glswrite{item_x1
8831
         \string\\relax \string\\glsresetentrylist\string\n
8832
8833
         \string"}
8834
       \write\glswrite{item_12 \string\\\string\n\string\}
8835
       \write\glswrite{item_x2
         \string"\string\\relax \string\\glsresetentrylist\string\n
8836
         \string"}
8837
       \write\glswrite{delim_0 \string"\string\{\string}
8838
         \\glossaryentrynumbers\string\{\string\\relax \string"}
8839
       \write\glswrite{delim_1 \string"\string\{\string}
8840
         \\glossaryentrynumbers\string\{\string\\relax \string"}
8841
       \write\glswrite{delim_2 \string"\string\{\string}
8842
         \\glossaryentrynumbers\string\{\string\\relax \string"}
8843
       \write\glswrite{delim_t \string"\string\}\string\}\string"}
8844
       \write\glswrite{delim_n \string"\string\\delimN \string"}
8845
       \write\glswrite{delim_r \string"\string\\delimR \string"}
8846
       \write\glswrite{headings_flag 1}
8847
       \write\glswrite{heading_prefix
8848
          \string\\glsgroupheading\string\{\string"}
8849
       \write\glswrite{heading_suffix
8850
          \string"\string\\relax
8851
```

```
8852
                                \string\\glsresetentrylist \string"}
                            \write\glswrite{symhead_positive \string"glssymbols\string"}
                    8853
                            \write\glswrite{numhead_positive \string"glsnumbers\string"}
                    8854
                            \write\glswrite{page_compositor \string"\glscompositor\string"}
                    8855
                            \@gls@escbsdq\gls@suffixF
                    8856
                            \@gls@escbsdq\gls@suffixFF
                    8857
                            \ifx\gls@suffixF\@empty
                    8858
                            \else
                    8859
                               \write\glswrite{suffix_2p \string"\gls@suffixF\string"}
                    8860
                            \fi
                    8861
                            \ifx\gls@suffixFF\@empty
                    8862
                    8863
                            \else
                    8864
                               \write\glswrite{suffix_3p \string"\gls@suffixFF\string"}
                            \fi
                    8865
                            \noist
                    8866
                    8867
                          }
                    8868\fi
             \noist
                    8869 \renewcommand*{\noist}{\let\writeist\relax}
                      Compatibility macros.
                    8870 \NeedsTeXFormat{LaTeX2e}
                    8871 \ProvidesPackage{glossaries-compatible-307}[2013/11/14 v4.0 (NLCT)]
                        Compatibility macros for predefined glossary styles:
compatglossarystyle Defines a compatibility glossary style.
                    8872 \newcommand{\compatglossarystyle}[2]{%
                          \ifcsundef{@glscompstyle@#1}%
                    8873
                    8874
                          {%
                            \csdef{@glscompstyle@#1}{#2}%
                    8875
                          }%
                    8876
                          {%
                    8877
                    8878
                            \PackageError{glossaries}{Glossary compatibility style '#1' is already defined}{}%
                    8879
                          }%
                    8880 }
                      Backward compatible inline style.
                    8881 \compatglossarystyle{inline}{%
                          \renewcommand{\glossaryentryfield}[5]{%
                    8882
                            \glsinlinedopostchild
                    8883
                            \gls@inlinesep
                    8884
                            \def\glo@desc{##3}%
                    8885
                            \def\@no@post@desc{\nopostdesc}%
                    8886
                            \glsentryitem{##1}\glsinlinenameformat{##1}{##2}%
                    8887
                    8888
                            \ifx\glo@desc\@no@post@desc
                               \glsinlineemptydescformat{##4}{##5}%
                    8889
                    8890
                            \else
                               \ifstrempty{##3}%
                    8891
```

```
8892
          {\glsinlineemptydescformat{##4}{##5}}%
          {\glsinlinedescformat{##3}{##4}{##5}}%
8893
        \fi
8894
        \ifglshaschildren{##1}%
8895
        {%
8896
           \glsresetsubentrycounter
8897
           \glsinlineparentchildseparator
8898
           \def\gls@inlinesubsep{}%
8899
           \def\gls@inlinepostchild{\glsinlinepostchild}%
8900
       }%
8901
       {}%
8902
        \def\gls@inlinesep{\glsinlineseparator}%
8903
8904
 Sub-entries display description:
8905
      \renewcommand{\glossarysubentryfield}[6]{%
        \gls@inlinesubsep%
8906
        \glsinlinesubnameformat{##2}{##3}%
8907
8908
        \glssubentryitem{##2}\glsinlinesubdescformat{##4}{##5}{##6}%
        \def\gls@inlinesubsep{\glsinlinesubseparator}%
8909
     }%
8910
8911 }
 Backward compatible list style.
8912 \compatglossarystyle{list}{%
8913
      \renewcommand*{\glossaryentryfield}[5]{%
        \item[\glsentryitem{##1}\glstarget{##1}{##2}]
8914
           ##3\glspostdescription\space ##5}%
8915
 Sub-entries continue on the same line:
8916
     \renewcommand*{\glossarysubentryfield}[6]{%
8917
        \glssubentryitem{##2}%
        \glstarget{##2}{\strut}##4\glspostdescription\space ##6.}%
8918
8919 }
 Backward compatible listgroup style.
8920 \compatglossarystyle{listgroup}{%
8921 \csuse{@glscompstyle@list}%
8922 }%
 Backward compatible listhypergroup style.
8923 \compatglossarystyle{listhypergroup}{%
8924 \csuse{@glscompstyle@list}%
8925 }%
 Backward compatible altlist style.
8926 \compatglossarystyle{altlist}{%
      \renewcommand*{\glossaryentryfield}[5]{%
8927
        \item[\glsentryitem{##1}\glstarget{##1}{##2}]%
8928
          \mbox{}\par\nobreak\@afterheading
8929
8930
          ##3\glspostdescription\space ##5}%
     \renewcommand{\glossarysubentryfield}[6]{%
8931
```

```
8932
8933
        \glssubentryitem{##2}%
        \glstarget{##2}{\strut}##4\glspostdescription\space ##6}%
8934
8935 }%
 Backward compatible altlistgroup style.
8936 \compatglossarystyle{altlistgroup}{%
8937 \csuse{@glscompstyle@altlist}%
8938 }%
 Backward compatible altlisthypergroup style.
8939 \compatglossarystyle{altlisthypergroup}{%
8940 \csuse{@glscompstyle@altlist}%
8941 }%
 Backward compatible listdotted style.
8942 \compatglossarystyle{listdotted}{%
     \renewcommand*{\glossaryentryfield}[5]{%
        \item[]\makebox[\glslistdottedwidth][1]{%
8944
8945
          \glsentryitem{##1}\glstarget{##1}{##2}%
          \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}##3}%
8946
      \renewcommand*{\glossarysubentryfield}[6]{%
8947
        \item[]\makebox[\glslistdottedwidth][1]{%
8948
        \glssubentryitem{##2}%
8949
        \glstarget{##2}{##3}%
8950
8951
        \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}##4}%
8952 }%
 Backward compatible sublistdotted style.
8953 \compatglossarystyle{sublistdotted}{%
     \csuse{@glscompstyle@listdotted}%
8955
     \renewcommand*{\glossaryentryfield}[5]{%
       \item[\glsentryitem{##1}\glstarget{##1}{##2}]}%
8956
8957 }%
 Backward compatible long style.
8958 \compatglossarystyle{long}{%
8959
     \renewcommand*{\glossaryentryfield}[5]{%
        \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5\\}%
8960
      \renewcommand*{\glossarysubentryfield}[6]{%
8961
8962
8963
         \glssubentryitem{##2}%
8964
         \glstarget{##2}{\strut}##4\glspostdescription\space ##6\\}%
8965 }%
 Backward compatible longborder style.
8966 \compatglossarystyle{longborder}{%
8967 \csuse{@glscompstyle@long}%
8968 }%
 Backward compatible longheader style.
8969 \compatglossarystyle{longheader}{%
```

```
8970 \csuse{@glscompstyle@long}%
8971 }%
 Backward compatible longheaderborder style.
8972 \compatglossarystyle{longheaderborder}{%
8973 \csuse{@glscompstyle@long}%
8974 }%
 Backward compatible long3col style.
8975 \compatglossarystyle{long3col}{%
     \renewcommand*{\glossaryentryfield}[5]{%
8976
        \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\\}%
8977
     \renewcommand*{\glossarysubentryfield}[6]{%
8978
8979
         \glssubentryitem{##2}%
8980
         \glstarget{##2}{\strut}##4 & ##6\\}%
8981
8982 }%
 Backward compatible long3colborder style.
8983 \compatglossarystyle{long3colborder}{%
8984 \csuse{@glscompstyle@long3col}%
8985 }%
 Backward compatible long3colheader style.
8986 \compatglossarystyle{long3colheader}{%
8987 \csuse{@glscompstyle@long3col}%
8988 }%
 Backward compatible long3colheaderborder style.
8989 \compatglossarystyle{long3colheaderborder}{%
8990 \csuse{@glscompstyle@long3col}%
8991 }%
 Backward compatible long4col style.
8992 \compatglossarystyle{long4col}{%
8993
     \renewcommand*{\glossaryentryfield}[5]{%
       \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\\}%
8994
8995
     \renewcommand*{\glossarysubentryfield}[6]{%
8996
         \glssubentryitem{##2}%
8997
8998
         \glstarget{##2}{\strut}##4 & ##5 & ##6\\}%
8999 }%
 Backward compatible long4colheader style.
9000 \compatglossarystyle{long4colheader}{%
9001 \csuse{@glscompstyle@long4col}%
9002 }%
 Backward compatible long4colborder style.
9003 \compatglossarystyle{long4colborder}{%
9004 \csuse{@glscompstyle@long4col}%
9005 }%
```

```
Backward compatible long4colheaderborder style.
9006 \compatglossarystyle{long4colheaderborder}{%
9007 \csuse{@glscompstyle@long4col}%
9008 }%
 Backward compatible altlong4col style.
9009 \compatglossarystyle{altlong4col}{%
9010 \csuse{@glscompstyle@long4col}%
9011 }%
 Backward compatible altlong4colheader style.
9012 \compatglossarystyle{altlong4colheader}{%
9013 \csuse{@glscompstyle@long4col}%
9014 }%
 Backward compatible altlong4colborder style.
9015 \compatglossarystyle{altlong4colborder}{%
9016 \csuse{@glscompstyle@long4col}%
9017 }%
 Backward compatible altlong4colheaderborder style.
9018 \compatglossarystyle {altlong4colheaderborder} {%
9019 \csuse{@glscompstyle@long4col}%
9020 }%
   Backward compatible long style.
9021 \compatglossarystyle{longragged}{%
     \renewcommand*{\glossaryentryfield}[5]{%
9022
9023
        \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5%
        \tabularnewline}%
9024
     \renewcommand*{\glossarysubentryfield}[6]{%
9025
9026
         \glssubentryitem{##2}%
9027
9028
         \glstarget{##2}{\strut}##4\glspostdescription\space ##6%
        \tabularnewline}%
9029
9030 }%
 Backward compatible longraggedborder style.
9031 \compatglossarystyle{longraggedborder}{%
9032 \csuse{@glscompstyle@longragged}%
9033 }%
 Backward compatible longraggedheader style.
9034 \compatglossarystyle{longraggedheader}{%
9035 \csuse{@glscompstyle@longragged}%
9036 }%
 Backward compatible longraggedheaderborder style.
9037 \compatglossarystyle{longraggedheaderborder}{%
9038 \csuse{@glscompstyle@longragged}%
9039 }%
```

```
Backward compatible longragged3col style.
9040 \compatglossarystyle{longragged3col}{%
     \renewcommand*{\glossaryentryfield}[5]{%
       9042
     \renewcommand*{\glossarysubentryfield}[6]{%
9043
9044
        \glssubentryitem{##2}%
9045
9046
        \glstarget{##2}{\strut}##4 & ##6\tabularnewline}%
9047 }%
 Backward compatible longragged3colborder style.
9048 \compatglossarystyle{longragged3colborder}{%
9049 \csuse{@glscompstyle@longragged3col}%
9050 }%
 Backward compatible longragged3colheader style.
9051 \compatglossarystyle{longragged3colheader}{%
9052 \csuse{@glscompstyle@longragged3col}%
9053 }%
 Backward compatible longragged3colheaderborder style.
9054 \compatglossarystyle{longragged3colheaderborder}{%
9055 \csuse{@glscompstyle@longragged3col}%
9056 }%
 Backward compatible altlongragged4col style.
9057\compatglossarystyle{altlongragged4col}{%
9058
     \renewcommand*{\glossaryentryfield}[5]{%
       \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\tabularnewline}%
9059
9060
     \renewcommand*{\glossarysubentryfield}[6]{%
9061
9062
        \glssubentryitem{##2}%
9063
        \glstarget{##2}{\strut}##4 & ##5 & ##6\tabularnewline}%
9064 }%
 Backward compatible altlongragged4colheader style.
9065 \compatglossarystyle{altlongragged4colheader}{%
9066 \csuse{@glscompstyle@altlong4col}%
9067 }%
 Backward compatible altlongragged4colborder style.
9068 \compatglossarystyle{altlongragged4colborder}{%
9069 \csuse{@glscompstyle@altlong4col}%
9070 }%
 Backward compatible altlongragged4colheaderborder style.
9071 \compatglossarystyle{altlongragged4colheaderborder}{%
9072 \csuse{@glscompstyle@altlong4col}%
9073 }%
```

Backward compatible index style.
9074 \compatglossarystyle{index}{%

```
9075
     \renewcommand*{\glossaryentryfield}[5]{%
        \item\glsentryitem{##1}\textbf{\glstarget{##1}{##2}}%
9076
          \ifx\relax##4\relax
9077
          \else
9078
9079
            \space(##4)%
9080
          \space ##3\glspostdescription \space ##5}%
9081
      \renewcommand*{\glossarysubentryfield}[6]{%
9082
        \ifcase##1\relax
9083
          % level 0
9084
          \item
9085
9086
        \or
9087
          % level 1
9088
          \subitem
          \glssubentryitem{##2}%
9089
        \else
9090
          % all other levels
9091
          \subsubitem
9092
9093
        \textbf{\glstarget{##2}{##3}}%
9094
        \ifx\relax##5\relax
9095
        \else
9096
9097
          \space(##5)%
9098
        \fi
        \space##4\glspostdescription\space ##6}%
9099
9100 }%
 Backward compatible indexgroup style.
9101 \compatglossarystyle{indexgroup}{%
9102 \csuse{@glscompstyle@index}%
9103 }%
 Backward compatible indexhypergroup style.
9104 \compatglossarystyle{indexhypergroup}{%
9105 \csuse{@glscompstyle@index}%
9106 }%
 Backward compatible tree style.
9107 \compatglossarystyle{tree}{%
     \renewcommand{\glossaryentryfield}[5]{%
9108
        \hangindentOpt\relax
9109
        \parindent0pt\relax
9110
        \glsentryitem{##1}\textbf{\glstarget{##1}{##2}}%
9111
9112
        \int x^{\pi} 4\pi
        \else
9113
          \space(##4)%
9114
        \fi
9115
        \space ##3\glspostdescription \space ##5\par}%
9116
9117
      \renewcommand{\glossarysubentryfield}[6]{%
9118
        \hangindent##1\glstreeindent\relax
9119
        \parindent##1\glstreeindent\relax
```

```
9120
       9121
          \glssubentryitem{##2}%
9122
       \fi
       \textbf{\glstarget{##2}{##3}}%
9123
9124
       \ifx\relax##5\relax
9125
       \else
          \space(##5)%
9126
9127
       \space##4\glspostdescription\space ##6\par}%
9128
9129 }%
 Backward compatible treegroup style.
9130 \compatglossarystyle{treegroup}{%
9131 \csuse{@glscompstyle@tree}%
9132 }%
 Backward compatible treehypergroup style.
9133 \compatglossarystyle{treehypergroup}{%
9134 \csuse{@glscompstyle@tree}%
9135 }%
 Backward compatible treenoname style.
9136 \compatglossarystyle{treenoname}{%
9137
     \renewcommand{\glossaryentryfield}[5]{%
       \hangindentOpt\relax
9138
9139
       \parindent0pt\relax
       \glsentryitem{##1}\textbf{\glstarget{##1}{##2}}%
9140
       \ifx\relax##4\relax
9141
       \else
9142
          \space(##4)%
9143
9144
       \fi
       \space ##3\glspostdescription \space ##5\par}%
9145
     \renewcommand{\glossarysubentryfield}[6]{%
9146
9147
       \hangindent##1\glstreeindent\relax
       \parindent##1\glstreeindent\relax
9148
       9149
          \glssubentryitem{##2}%
9150
9151
       \glstarget{##2}{\strut}%
9152
       ##4\glspostdescription\space ##6\par}%
9153
9154 }%
 Backward compatible treenonamegroup style.
9155 \compatglossarystyle{treenonamegroup}{%
9156 \csuse{@glscompstyle@treenoname}%
9157 }%
 Backward compatible treenonamehypergroup style.
9158 \compatglossarystyle{treenonamehypergroup}{%
9159 \csuse{@glscompstyle@treenoname}%
9160 }%
```

#### Backward compatible alttree style.

```
9161 \compatglossarystyle{alttree}{%
     \renewcommand{\glossaryentryfield}[5]{%
        \ifnum\@gls@prevlevel=0\relax
9163
        \else
9164
           \settowidth{\glstreeindent}{\textbf{\@glswidestname\space}}%
9165
          \hangindent\glstreeindent
9166
9167
          \parindent\glstreeindent
9168
        \makebox[0pt][r]{\makebox[\glstreeindent][1]{%
9169
           \glsentryitem{##1}\textbf{\glstarget{##1}{##2}}}}%
9170
        \int x^{\pi} 4\pi
9171
9172
        \else
9173
          (##4)\space
       \fi
9174
       ##3\glspostdescription \space ##5\par
9175
       \def\@gls@prevlevel{0}%
9176
9177
9178
     \renewcommand{\glossarysubentryfield}[6]{%
        \int 1=1\relax
9179
9180
          \glssubentryitem{##2}%
        \fi
9181
        \ifnum\@gls@prevlevel=##1\relax
9182
9183
        \else
          \@ifundefined{@glswidestname\romannumeral##1}{%
9184
            \settowidth{\gls@tmplen}{\textbf{\@glswidestname\space}}}{%
9185
            \settowidth{\gls@tmplen}{\textbf{%
9186
               \csname @glswidestname\romannumeral##1\endcsname\space}}}%
9187
9188
          \ifnum\@gls@prevlevel<##1\relax
             \setlength\glstreeindent\gls@tmplen
9189
             \addtolength\glstreeindent\parindent
9190
             \parindent\glstreeindent
9191
          \else
9192
             \@ifundefined{@glswidestname\romannumeral\@gls@prevlevel}{%
9193
9194
               \settowidth{\glstreeindent}{\textbf{%
                  \@glswidestname\space}}}{%
9195
               \settowidth{\glstreeindent}{\textbf{%
9196
                  \csname @glswidestname\romannumeral\@gls@prevlevel
9197
9198
                     \endcsname\space}}}%
9199
             \addtolength\parindent{-\glstreeindent}%
             \setlength\glstreeindent\parindent
9200
          \fi
9201
        \fi
9202
        \hangindent\glstreeindent
9203
        \makebox[Opt][r]{\makebox[\gls@tmplen][1]{%
9204
          \textbf{\glstarget{##2}{##3}}}}%
9205
        \ifx##5\relax\relax
9206
        \else
9207
          (##5)\space
9208
```

```
9209
       ##4\glspostdescription\space ##6\par
9210
9211
       \def\@gls@prevlevel{##1}%
9212 }%
9213 }%
 Backward compatible alttreegroup style.
9214 \compatglossarystyle{alttreegroup}{%
9215 \csuse{@glscompstyle@alttree}%
9216 }%
 Backward compatible alttreehypergroup style.
9217 \compatglossarystyle{alttreehypergroup}{%
9218 \csuse{@glscompstyle@alttree}%
9219 }%
   Backward compatible mcolindex style.
9220 \compatglossarystyle{mcolindex}{%
9221 \csuse{@glscompstyle@index}%
9222 }%
 Backward compatible mcolindexgroup style.
9223 \compatglossarystyle{mcolindexgroup}{%
9224 \csuse{@glscompstyle@index}%
9225 }%
 Backward compatible mcolindexhypergroup style.
9226 \compatglossarystyle \{mcolindexhypergroup\} \{\%
9227 \csuse{@glscompstyle@index}%
9228 }%
 Backward compatible mcoltree style.
9229 \compatglossarystyle{mcoltree}{%
9230 \csuse{@glscompstyle@tree}%
9231 }%
 Backward compatible mcoltreegroup style.
9232 \compatglossarystyle{mcolindextreegroup}{%
9233 \csuse{@glscompstyle@tree}%
9234 }%
 Backward compatible mcoltreehypergroup style.
9235 \compatglossarystyle{mcolindextreehypergroup}{%
9236 \csuse{@glscompstyle@tree}%
9237 }%
 Backward compatible mcoltreenoname style.
9238 \compatglossarystyle{mcoltreenoname}{%
9239 \csuse{@glscompstyle@tree}%
9240 }%
 Backward compatible mcoltreenonamegroup style.
```

9241 \compatglossarystyle{mcoltreenonamegroup}{%

```
9242 \csuse{@glscompstyle@tree}%
9243 }%
 Backward compatible mcoltreenonamehypergroup style.
9244 \compatglossarystyle \{mcoltreenonamehypergroup\} \{\%
9245 \csuse{@glscompstyle@tree}%
9246 }%
 Backward compatible mcolalttree style.
9247\compatglossarystyle{mcolalttree}{%
9248 \csuse{@glscompstyle@alttree}%
9249 }%
 Backward compatible mcolalttreegroup style.
9250 \compatglossarystyle{mcolalttreegroup}{%
9251 \csuse{@glscompstyle@alttree}%
9252 }%
 Backward compatible mcolalttreehypergroup style.
9253 \compatglossarystyle{mcolalttreehypergroup}{%
9254 \csuse{@glscompstyle@alttree}%
9255 }%
   Backward compatible superragged style.
9256 \compatglossarystyle{superragged}{%
     \renewcommand*{\glossaryentryfield}[5]{%
9257
9258
        \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5%
9259
          \tabularnewline}%
     \renewcommand*{\glossarysubentryfield}[6]{%
9260
9261
         \glssubentryitem{##2}%
9262
         \glstarget{##2}{\strut}##4\glspostdescription\space ##6%
9263
         \tabularnewline}%
9264
9265 }%
 Backward compatible superraggedborder style.
9266 \compatglossarystyle{superraggedborder}{%
9267 \csuse{@glscompstyle@superragged}%
9268 }%
 Backward compatible superraggedheader style.
9269 \compatglossarystyle{superraggedheader}{%
9270 \csuse{@glscompstyle@superragged}%
9271 }%
 Backward compatible superraggedheaderborder style.
9272\compatglossarystyle{superraggedheaderborder}{%
9273 \csuse{@glscompstyle@superragged}%
9274 }%
 Backward compatible superragged3col style.
9275 \compatglossarystyle{superragged3col}{%
9276 \renewcommand*{\glossaryentryfield}[5]{%
```

```
9277
       \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\tabularnewline}%
     \renewcommand*{\glossarysubentryfield}[6]{%
9278
9279
         \glssubentryitem{##2}%
9280
         \glstarget{##2}{\strut}##4 & ##6\tabularnewline}%
9281
9282 }%
 Backward compatible superragged3colborder style.
9283 \compatglossarystyle{superragged3colborder}{%
9284 \csuse{@glscompstyle@superragged3col}%
9285 }%
 Backward compatible superragged3colheader style.
9286 \compatglossarystyle{superragged3colheader}{%
9287 \csuse{@glscompstyle@superragged3col}%
9288 }%
 Backward compatible superragged3colheaderborder style.
9289 \compatglossarystyle{superragged3colheaderborder}{%
9290 \csuse{@glscompstyle@superragged3col}%
9291 }%
 Backward compatible altsuperragged4col style.
9292 \compatglossarystyle{altsuperragged4col}{%
     \renewcommand*{\glossaryentryfield}[5]{%
9293
       \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\tabularnewline}%
9294
     \renewcommand*{\glossarysubentryfield}[6]{%
9295
9296
         \glssubentryitem{##2}%
9297
         \glstarget{##2}{\strut}##4 & ##5 & ##6\tabularnewline}%
9298
9299 }%
 Backward compatible altsuperragged4colheader style.
9300 \compatglossarystyle{altsuperragged4colheader}{%
9301 \csuse{@glscompstyle@altsuperragged4col}%
9302 }%
 Backward compatible altsuperragged4colborder style.
9303 \compatglossarystyle{altsuperragged4colborder}{%
9304 \csuse{@glscompstyle@altsuperragged4col}%
9305 }%
 Backward compatible altsuperragged4colheaderborder style.
9306\compatglossarystyle{altsuperragged4colheaderborder}{%
9307 \csuse{@glscompstyle@altsuperragged4col}%
9308 }%
   Backward compatible super style.
9309 \compatglossarystyle{super}{%
     \renewcommand*{\glossaryentryfield}[5]{%
9310
       \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5\\}%
9311
     \renewcommand*{\glossarysubentryfield}[6]{%
```

```
9313
9314
         \glssubentryitem{##2}%
9315
         \glstarget{##2}{\strut}##4\glspostdescription\space ##6\\}%
9316 }%
 Backward compatible superborder style.
9317\compatglossarystyle{superborder}{%
9318 \csuse{@glscompstyle@super}%
9319 }%
 Backward compatible superheader style.
9320 \compatglossarystyle{superheader}{%
9321 \csuse{@glscompstyle@super}%
9322 }%
 Backward compatible superheaderborder style.
9323 \compatglossarystyle{superheaderborder}{%
9324 \csuse{@glscompstyle@super}%
9325 }%
 Backward compatible super3col style.
9326 \compatglossarystyle{super3col}{%
     \renewcommand*{\glossaryentryfield}[5]{%
9327
        \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\\}%
9328
     \renewcommand*{\glossarysubentryfield}[6]{%
9329
9330
         \glssubentryitem{##2}%
9331
9332
         \glstarget{##2}{\strut}##4 & ##6\\}%
9333 }%
 Backward compatible super3colborder style.
9334 \compatglossarystyle{super3colborder}{%
9335 \csuse{@glscompstyle@super3col}%
9336 }%
 Backward compatible super3colheader style.
9337 \compatglossarystyle{super3colheader}{%
9338 \csuse{@glscompstyle@super3col}%
9339 }%
 Backward compatible super3colheaderborder style.
9340 \compatglossarystyle{super3colheaderborder}{%
9341 \csuse{@glscompstyle@super3col}%
9342 }%
 Backward compatible super4col style.
9343 \compatglossarystyle{super4col}{%
     \renewcommand*{\glossaryentryfield}[5]{%
9344
9345
        \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\\}%
9346
      \renewcommand*{\glossarysubentryfield}[6]{%
9347
         \glssubentryitem{##2}%
```

```
9349
         \glstarget{##2}{\strut}##4 & ##5 & ##6\\}%
9350 }%
 Backward compatible super4colheader style.
9351 \compatglossarystyle{super4colheader}{%
9352 \csuse{@glscompstyle@super4col}%
9353 }%
 Backward compatible super4colborder style.
9354 \compatglossarystyle{super4colborder}{%
9355 \csuse{@glscompstyle@super4col}%
9356}%
 Backward compatible super4colheaderborder style.
9357 \compatglossarystyle{super4colheaderborder}{%
9358 \csuse{@glscompstyle@super4col}%
9359 }%
 Backward compatible altsuper4col style.
9360 \compatglossarystyle{altsuper4col}{%
9361 \csuse{@glscompstyle@super4col}%
9362 }%
 Backward compatible altsuper4colheader style.
9363 \compatglossarystyle{altsuper4colheader}{%
9364 \csuse{@glscompstyle@super4col}%
9365 }%
 Backward compatible altsuper4colborder style.
9366 \compatglossarystyle{altsuper4colborder}{%
9367 \csuse{@glscompstyle@super4col}%
9368 }%
 Backward compatible altsuper4colheaderborder style.
9369 \compatglossarystyle{altsuper4colheaderborder}{%
9370 \csuse{@glscompstyle@super4col}%
9371 }%
```

# 6 Accessibility Support (glossaries-accsupp Code)

The package is experimental. It is intended to provide a means of using the PDF accessibilty support in glossary entries. See the documentation for further details about accessibility support.

```
9372 \NeedsTeXFormat{LaTeX2e}
```

Package version number now in line with main glossaries package number but will only be updated when glossaries-accsupp.sty is modified.

```
9373 \ProvidesPackage{glossaries-accsupp}[2014/03/06 v4.04 (NLCT) 9374 Experimental glossaries accessibility]
```

Pass all options to glossaries:

9375 \DeclareOption\*{\PassOptionsToPackage{\CurrentOption}{glossaries}}

#### **Process options:**

9376 \ProcessOptions

```
Override style compatibility macros:
ompatibleglossentry
                                                            9377 \def\compatibleglossentry#1#2{%
                                                            9378
                                                                             \toks@{#2}%
                                                                             \protected@edef\@do@glossentry{%
                                                            9379
                                                                                   \noexpand\accsuppglossaryentryfield{#1}%
                                                            9380
                                                                                   {\noexpand\glsnamefont
                                                            9381
                                                            9382
                                                                                             {\expandafter\expandonce\csname glo@\glsdetoklabel{#1}@name\endcsname}}%
                                                                                   {\expandafter\expandonce\csname glo@\glsdetoklabel{#1}@desc\endcsname}%
                                                            9383
                                                            9384
                                                                                   {\expandafter\expandonce\csname glo@\glsdetoklabel{#1}@symbol\endcsname}%
                                                                                   {\theta\the\toks@}%
                                                            9385
                                                                             }%
                                                            9386
                                                                             \@do@glossentry
                                                            9387
                                                            9388 }
atiblesubglossentry
                                                            9389 \def\compatiblesubglossentry#1#2#3{%
                                                                             \toks@{#3}%
                                                                             \protected@edef\@do@subglossentry{%
                                                            9391
                                                                                   \noexpand\accsuppglossarysubentryfield{\number#1}%
                                                            9392
                                                                                   {#2}%
                                                            9393
                                                                                   {\noexpand\glsnamefont
                                                            9394
                                                                                          {\expandafter\expandonce\csname glo@\glsdetoklabel{#2}@name\endcsname}}%
                                                            9395
                                                                                   {\expandafter\expandonce\csname glo@\glsdetoklabel{#2}@desc\endcsname}%
                                                            9396
                                                                                   \label{#2} $$ \operatorname{\constant} glo@\glsdetoklabel{#2} @symbol\endcsname} % $$ \constant{\constant} $$ \constant $$ \constant{\constant} $$ \constant{\co
                                                            9397
                                                                                   {\theta}
                                                            9398
                                                                             }%
                                                            9399
                                                                             \@do@subglossentry
                                                            9400
                                                            9401 }
```

## Required packages:

```
9402 \RequirePackage{glossaries}
9403 \RequirePackage{accsupp}
```

### 6.1 Defining Replacement Text

The version 0.1 stored the replacement text in the symbol key. This has been changed to use the new keys defined here. Example of use:

```
\newglossaryentry{dr}{name=Dr,description={},access={Doctor}}
```

access The replacement text corresponding to the name key:

```
9404 \define@key{glossentry}{access}{%
9405 \def\@glo@access{#1}%
9406}
```

```
textaccess The replacement text corresponding to the text key:
                    9407 \define@key{glossentry}{textaccess}{%
                         \def\@glo@textaccess{#1}%
                    9409 }
        firstaccess The replacement text corresponding to the first key:
                    9410 \define@key{glossentry}{firstaccess}{%
                    9411 \def\@glo@firstaccess{#1}%
                    9412}
       pluralaccess The replacement text corresponding to the plural key:
                    9413 \define@key{glossentry}{pluralaccess}{%
                    9414
                          \def\@glo@pluralaccess{#1}%
                    9415}
 firstpluralaccess The replacement text corresponding to the firstplural key:
                    9416 \define@key{glossentry}{firstpluralaccess}{%
                    9417 \def\@glo@firstpluralaccess{#1}%
                    9418}
       symbolaccess The replacement text corresponding to the symbol key:
                    9419 \define@key{glossentry}{symbolaccess}{%
                         \def\@glo@symbolaccess{#1}%
                    9420
                    9421 }
symbolpluralaccess The replacement text corresponding to the symbolplural key:
                    9422 \define@key{glossentry}{symbolpluralaccess}{%
                    9423 \def\@glo@symbolpluralaccess{#1}%
                    9424 }
 descriptionaccess The replacement text corresponding to the description key:
                    9425 \define@key{glossentry}{descriptionaccess}{%
                    9426 \def\@glo@descaccess{#1}%
                    9427 }
riptionpluralaccess The replacement text corresponding to the descriptionplural key:
                    9428 \define@key{glossentry}{descriptionpluralaccess}{%
                          \def\@glo@descpluralaccess{#1}%
                    9430 }
        shortaccess The replacement text corresponding to the short key:
                    9431 \define@key{glossentry}{shortaccess}{%
                    9432
                          \def\@glo@shortaccess{#1}%
                    9433 }
 shortpluralaccess The replacement text corresponding to the shortplural key:
                    9434 \define@key{glossentry}{shortpluralaccess}{%
                    9435 \def\@glo@shortpluralaccess{#1}%
                    9436 }
```

```
longaccess The replacement text corresponding to the long key:
                  9437 \define@key{glossentry}{longaccess}{%
                       \def\@glo@longaccess{#1}%
                 9439 }
longpluralaccess The replacement text corresponding to the longplural key:
                 9440 \define@key{glossentry}{longpluralaccess}{%
                       \def\@glo@longpluralaccess{#1}%
                 9441
                 9442 }
                   There are no equivalent keys for the user1...user6 keys. The replacement text
                   would have to be explicitly put in the value, e.g., user1={\glsaccsupp{inches}{in}}.
                     Append these new keys to \@gls@keymap:
                  9443 \appto\@gls@keymap{,%
                 9444 {access}{access},%
                      {textaccess}{textaccess},%
                      {firstaccess}{firstaccess},%
                  9446
                      {pluralaccess}{pluralaccess},%
                 9447
                      {firstpluralaccess}{firstpluralaccess},%
                 9448
                       {symbolaccess}{symbolaccess},%
                  9449
                       {symbolpluralaccess}{symbolpluralaccess},%
                 9450
                      {descaccess}{descaccess},%
                 9451
                 9452
                      {descpluralaccess}{descpluralaccess},%
                      {shortaccess}{shortaccess},%
                  9453
                  9454
                      {shortpluralaccess}{shortpluralaccess},%
                      {longaccess}{longaccess},%
                  9455
                       {longpluralaccess}{longpluralaccess}%
                  9456
                 9457 }
                  Indicates that no replacement text has been provided.
  \@gls@noaccess
                  9458 \def\@gls@noaccess{\relax}
                     Add to the start hook (the access key is initialised to the value of the symbol
                   key at the start for backwards compatibility):
                  9459 \let\@gls@oldnewglossaryentryprehook\@newglossaryentryprehook
                  9460 \renewcommand*{\@newglossaryentryprehook}{%
                       \@gls@oldnewglossaryentryprehook
                  9461
                       \def\@glo@access{\@glo@symbol}%
                   Initialise the other keys:
                       \def\@glo@textaccess{\@glo@access}%
                  9463
                       \def\@glo@firstaccess{\@glo@access}%
                  9464
                       \def\@glo@pluralaccess{\@glo@textaccess}%
                  9465
                       \def\@glo@firstpluralaccess{\@glo@pluralaccess}%
                  9466
                       \def\@glo@symbolaccess{\relax}%
                  9467
                       \def\@glo@symbolpluralaccess{\@glo@symbolaccess}%
                  9468
```

\def\@glo@descaccess{\relax}%

\def\@glo@descpluralaccess{\@glo@descaccess}%

```
9471
     \def\@glo@shortaccess{\relax}%
     \def\@glo@shortpluralaccess{\@glo@shortaccess}%
9472
     \def\@glo@longaccess{\relax}%
9473
     \def\@glo@longpluralaccess{\@glo@longaccess}%
9474
9475 }
 Add to the end hook:
9476 \let\@gls@oldnewglossaryentryposthook\@newglossaryentryposthook
9477 \renewcommand*{\@newglossaryentryposthook}{%
     \@gls@oldnewglossaryentryposthook
 Store the access information:
     \expandafter
       \protected@xdef\csname glo@\@glo@label @access\endcsname{%
9480
          \@glo@access}%
9481
     \expandafter
9482
       \protected@xdef\csname glo@\@glo@label @textaccess\endcsname{%
9483
          \@glo@textaccess}%
9484
     \expandafter
9485
9486
       \protected@xdef\csname glo@\@glo@label @firstaccess\endcsname{%
         \@glo@firstaccess}%
9487
     \expandafter
9488
       \protected@xdef\csname glo@\@glo@label @pluralaccess\endcsname{%
9489
9490
          \@glo@pluralaccess}%
9491
     \expandafter
       \protected@xdef\csname glo@\@glo@label @firstpluralaccess\endcsname{%
9492
         \@glo@firstpluralaccess}%
9493
     \expandafter
9494
       \protected@xdef\csname glo@\@glo@label @symbolaccess\endcsname{%
9495
9496
          \@glo@symbolaccess}%
     \expandafter
9497
       \protected@xdef\csname glo@\@glo@label @symbolpluralaccess\endcsname{%
9498
          \@glo@symbolpluralaccess}%
9499
     \expandafter
9500
       \protected@xdef\csname glo@\@glo@label @descaccess\endcsname{%
9501
          \@glo@descaccess}%
9502
     \expandafter
9503
       \protected@xdef\csname glo@\@glo@label @descpluralaccess\endcsname{%
9504
          \@glo@descpluralaccess}%
9505
     \expandafter
9506
9507
       \protected@xdef\csname glo@\@glo@label @shortaccess\endcsname{%
         \@glo@shortaccess}%
9508
9509
     \expandafter
       \protected@xdef\csname glo@\@glo@label @shortpluralaccess\endcsname{%
9510
          \@glo@shortpluralaccess}%
9511
     \expandafter
9512
       \protected@xdef\csname glo@\@glo@label @longaccess\endcsname{%
9513
          \@glo@longaccess}%
9514
     \expandafter
9515
       \protected@xdef\csname glo@\@glo@label @longpluralaccess\endcsname{%
9516
```

```
9517
          \@glo@longpluralaccess}%
9518}
```

## 6.2 Accessing Replacement Text

Get the value of the access key for the entry with the given label: \glsentryaccess

```
9519 \newcommand*{\glsentryaccess}[1]{%
     \@gls@entry@field{#1}{access}%
9521 }
```

\glsentrytextaccess Get the value of the textaccess key for the entry with the given label:

```
9522 \newcommand*{\glsentrytextaccess}[1]{%
     \@gls@entry@field{#1}{textaccess}%
9524 }
```

glsentryfirstaccess Get the value of the firstaccess key for the entry with the given label:

```
9525 \newcommand*{\glsentryfirstaccess}[1]{%
     \@gls@entry@field{#1}{firstaccess}%
9527 }
```

lsentrypluralaccess

Get the value of the pluralaccess key for the entry with the given label:

```
9528 \newcommand*{\glsentrypluralaccess}[1]{%
     \@gls@entry@field{#1}{pluralaccess}%
9530 }
```

ryfirstpluralaccess

Get the value of the firstplural access key for the entry with the given label:

```
9531 \newcommand*{\glsentryfirstpluralaccess}[1]{%
9532
     \csname glo@#1@firstpluralaccess\endcsname
9533 }
```

lsentrysymbolaccess Get the value of the symbolaccess key for the entry with the given label:

```
9534 \newcommand*{\glsentrysymbolaccess}[1]{%
     \@gls@entry@field{#1}{symbolaccess}%
9536 }
```

ysymbolpluralaccess Get the value of the symbolpluralaccess key for the entry with the given label:

```
9537 \newcommand*{\glsentrysymbolpluralaccess}[1]{%
     \@gls@entry@field{#1}{symbolpluralaccess}%
9539 }
```

\glsentrydescaccess Get the value of the descriptionaccess key for the entry with the given label:

```
9540 \newcommand*{\glsentrydescaccess}[1]{%
     \@gls@entry@field{#1}{descaccess}%
9542 }
```

trydescpluralaccess

Get the value of the description plural access key for the entry with the given label:

```
9544 \@gls@entry@field{#1}{descaccess}%
                                                9545 }
glsentryshortaccess Get the value of the shortaccess key for the entry with the given label:
                                                9546 \newcommand*{\glsentryshortaccess}[1]{%
                                                9547 \@gls@entry@field{#1}{shortaccess}%
                                                9548 }
ryshortpluralaccess
                                                  Get the value of the shortplural access key for the entry with the given label:
                                                 9549 \newcommand*{\glsentryshortpluralaccess}[1]{%
                                                              \@gls@entry@field{#1}{shortpluralaccess}%
                                                9551 }
\glsentrylongaccess Get the value of the longaccess key for the entry with the given label:
                                                9552 \newcommand*{\glsentrylongaccess}[1]{%
                                                              \@gls@entry@field{#1}{longaccess}%
                                                9554 }
trylongpluralaccess
                                                 Get the value of the longplural access key for the entry with the given label:
                                                 9555 \newcommand*{\glsentrylongpluralaccess}[1]{%
                                                              \@gls@entry@field{#1}{longpluralaccess}%
                                                9557 }
                                                  \glsaccsupp{\langle replacement text\rangle} \langle \langle text\rangle \rangle \langle text\rangle \rangle \langle text\rangle \rangle \langle text\rangle \rangle \langle \langle text\rangle \rangle \langle \langle text\rangle \rangle \langle \
                   \glsaccsupp
                                                     This can be redefined to use E or Alt instead of ActualText. (I don't have the
                                                     software to test the E or Alt options.)
                                                 9558 \newcommand*{\glsaccsupp}[2]{%
                                                9559
                                                              \BeginAccSupp{ActualText=#1}#2\EndAccSupp{}%
                                                9560 }
                \xglsaccsupp Fully expands replacement text before calling \glsaccsupp
                                                9561 \newcommand*{\xglsaccsupp}[2]{%
                                                                 \protected@edef\@gls@replacementtext{#1}%
                                                 9562
                                                9563
                                                                 \expandafter\glsaccsupp\expandafter{\@gls@replacementtext}{#2}%
                                                9564 }
@gls@access@display
                                                 9565 \newcommand*{\@gls@access@display}[2]{%
                                                              \protected@edef\@glo@access{#2}%
                                                9566
                                                              \ifx\@glo@access\@gls@noaccess
                                                9567
                                                9568
                                                                   #1%
                                                 9569
                                                                   \xglsaccsupp{\@glo@access}{#1}%
                                                9570
                                                              \fi
                                                9571
                                                9572}
```

9543 \newcommand\*{\glsentrydescpluralaccess}[1]{%

```
lsnameaccessdisplay Displays the first argument with the accessibility text for the entry with the label
                      given by the second argument (if set).
                    9573 \DeclareRobustCommand*{\glsnameaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentryaccess{#2}}%
                    9575 }
lstextaccessdisplay As above but for the textaccess replacement text.
                    9576 \DeclareRobustCommand*{\glstextaccessdisplay}[2]{%
                         \@gls@access@display{#1}{\glsentrytextaccess{#2}}%
                    9578 }
pluralaccessdisplay As above but for the pluralaccess replacement text.
                    9579 \DeclareRobustCommand*{\glspluralaccessdisplay}[2]{%
                         \@gls@access@display{#1}{\glsentrypluralaccess{#2}}%
                    9581 }
sfirstaccessdisplay As above but for the firstaccess replacement text.
                    9582 \DeclareRobustCommand*{\glsfirstaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentryfirstaccess{#2}}%
                    9584 }
pluralaccessdisplay As above but for the firstpluralaccess replacement text.
                    9585 \DeclareRobustCommand*{\glsfirstpluralaccessdisplay}[2]{%
                    9586
                          \@gls@access@display{#1}{\glsentryfirstpluralaccess{#2}}%
                    9587 }
symbolaccessdisplay As above but for the symbolaccess replacement text.
                    9588 \DeclareRobustCommand*{\glssymbolaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentrysymbolaccess{#2}}%
                    9590 }
pluralaccessdisplay As above but for the symbolpluralaccess replacement text.
                    9591 \DeclareRobustCommand*{\glssymbolpluralaccessdisplay}[2]{%
                    9592 \@gls@access@display{#1}{\glsentrysymbolpluralaccess{#2}}%
                    9593 }
                    As above but for the descriptionaccess replacement text.
iptionaccessdisplay
                    9594 \DeclareRobustCommand*{\glsdescriptionaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentrydescaccess{#2}}%
                    9596 }
pluralaccessdisplay As above but for the descriptionpluralaccess replacement text.
                    9597 \DeclareRobustCommand*{\glsdescriptionpluralaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentrydescpluralaccess{#2}}%
```

9599 }

```
\@gls@access@display{#1}{\glsentryshortaccess{#2}}%
                    9602 }
pluralaccessdisplay \,\, As above but for the shortpluralaccess replacement text.
                    9603 \DeclareRobustCommand*{\glsshortpluralaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentryshortpluralaccess{#2}}%
                    9605 }
lslongaccessdisplay As above but for the longaccess replacement text.
                     9606 \DeclareRobustCommand*{\glslongaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentrylongaccess{#2}}%
                    9608}
pluralaccessdisplay As above but for the longpluralaccess replacement text.
                     9609 \DeclareRobustCommand*{\glslongpluralaccessdisplay}[2]{%
                          \@gls@access@display{#1}{\glsentrylongpluralaccess{#2}}%
                    9611 }
 \glsaccessdisplay
                      Gets the replacement text corresponding to the named key given by the first
                      argument and calls the appropriate command defined above.
                    9612 \DeclareRobustCommand*{\glsaccessdisplay}[3]{%
                    9613
                          \@ifundefined{gls#1accessdisplay}%
                     9614
                             \PackageError{glossaries-accsupp}{No accessibility support
                     9615
                              for key '#1'}{}%
                     9616
                     9617
                          }%
                     9618
                            \csname gls#1accessdisplay\endcsname{#2}{#3}%
                     9619
                    9620
                          }%
                    9621 }
                      Redefine the default entry format to use accessibility information
ls@default@entryfmt
                     9622 \renewcommand*{\@0gls@default@entryfmt}[2]{%
                          \ifdefempty\glscustomtext
                     9623
                          {%
                     9624
                             \glsifplural
                     9625
                             {%
                     9626
                      Plural form
                               \glscapscase
                     9627
                    9628
                               ₹%
                      Don't adjust case
                                 \ifglsused\glslabel
                     9629
                                 {%
                     9630
```

sshortaccessdisplay As above but for the shortaccess replacement text.

9600 \DeclareRobustCommand\*{\glsshortaccessdisplay}[2]{%

```
Subsequent use
9631
               #2{\glspluralaccessdisplay
                     {\glslabel}}{\glslabel}}%
9632
                 {\glsdescriptionpluralaccessdisplay
9633
                     {\glsentrydescplural{\glslabel}}{\glslabel}}%
9634
                 {\glssymbolpluralaccessdisplay
9635
                     {\glsentrysymbolplural{\glslabel}}{\glslabel}}
9636
9637
                 {\glsinsert}%
             }%
9638
             {%
9639
 First use
               #1{\glsfirstpluralaccessdisplay
9640
9641
                     {\glsentryfirstplural{\glslabel}}{\glslabel}}%
9642
                 {\glsdescriptionpluralaccessdisplay
                     {\glsabel}{\glslabel}}{\glslabel}}{\glslabel}}{\glslabel}}{\glslabel}}{\glslabel}}{\glsabel}}{\glsabel}}{\glsabel}}{\glsabel}}{\glsabel}}{\glsabel}}{\glsabel}{\glsabel}
9643
                 {\glssymbolpluralaccessdisplay
9644
9645
                     {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
                  {\glsinsert}%
9646
             }%
9647
          }%
9648
9649
           {%
 Make first letter upper case
             \ifglsused\glslabel
9650
9651
             {%
 Subsequent use.
               #2{\glspluralaccessdisplay
9652
9653
                    {\Glsentryplural{\glslabel}}{\glslabel}}%
                 {\glsdescriptionpluralaccessdisplay
9654
                    {\glsabel}{\glslabel}{\glslabel}}%
9655
                 {\glssymbolpluralaccessdisplay
9656
                    {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
9657
                 {\glsinsert}%
9658
             }%
9659
             {%
9660
 First use
               #1{\glsfirstpluralaccessdisplay
9661
                     {\Glsentryfirstplural{\glslabel}}{\glslabel}}%
9662
                 {\glsdescriptionpluralaccessdisplay
9663
9664
                     {\glsentrydescplural{\glslabel}}{\glslabel}}%
                 {\glssymbolpluralaccessdisplay
9665
                     {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
9666
                 {\glsinsert}%
9667
             }%
9668
          }%
9669
```

{% Make all upper case

```
9671
           \ifglsused\glslabel
9672
           {%
 Subsequent use
             \MakeUppercase{%
9673
               #2{\glspluralaccessdisplay
9674
                   {\glslabel}}{\glslabel}}%
9675
                 {\glsdescriptionpluralaccessdisplay
9676
                    {\glslabel}}{\glslabel}}%
9677
                 {\glssymbolpluralaccessdisplay
9678
                    {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
9679
                 {\glsinsert}}%
9680
           }%
9681
           {%
9682
 First use
             \MakeUppercase{%
9683
               #1{\glsfirstpluralaccessdisplay
9684
                    {\glsentryfirstplural{\glslabel}}{\glslabel}}%
9685
9686
                 {\glsdescriptionpluralaccessdisplay
                    {\glslabel}}{\glslabel}}%
9687
                 {\glssymbolpluralaccessdisplay
9688
                    {\glslabel}}{\glslabel}}%
9689
                 {\glsinsert}}%
9690
           }%
9691
         }%
9692
       }%
9693
       {%
9694
 Singular form
         \glscapscase
9696
 Don't adjust case
           \ifglsused\glslabel
9697
           {%
9698
 Subsequent use
9699
             #2{\glstextaccessdisplay
                  {\glsentrytext{\glslabel}}{\glslabel}}%
9700
               {\glsdescriptionaccessdisplay
9701
                  {\glsentrydesc{\glslabel}}{\glslabel}}%
9702
               {\glssymbolaccessdisplay
9703
                  {\glsentrysymbol{\glslabel}}{\glslabel}}%
9704
               {\glsinsert}%
9705
           }%
9706
           {%
9707
 First use
9708
             #1{\glsfirstaccessdisplay
                 {\glsentryfirst{\glslabel}}{\glslabel}}%
9709
               {\glsdescriptionaccessdisplay
9710
```

```
9711
                  {\glsentrydesc{\glslabel}}{\glslabel}}%
                {\glssymbolaccessdisplay
9712
9713
                  {\glsentrysymbol{\glslabel}}{\glslabel}}%
                {\glsinsert}%
9714
            }%
9715
          }%
9716
          {%
9717
 Make first letter upper case
            \ifglsused\glslabel
9718
9719
            {%
 Subsequent use
              #2{\glstextaccessdisplay
9721
                    {\Glsentrytext{\glslabel}}{\glslabel}}%
                {\glsdescriptionaccessdisplay
9722
9723
                    {\glsentrydesc{\glslabel}}{\glslabel}}%
                {\glssymbolaccessdisplay
9724
                    {\glslabel}}{\glslabel}}%
9725
9726
                {\glsinsert}%
9727
            }%
            {%
9728
 First use
              #1{\glsfirstaccessdisplay
9729
                  {\Glsentryfirst{\glslabel}}{\glslabel}}%
9730
9731
                {\glsdescriptionaccessdisplay
                  {\glsentrydesc{\glslabel}}{\glslabel}}%
9732
                {\glssymbolaccessdisplay
9733
                   {\glsentrysymbol{\glslabel}}{\glslabel}}%
9734
9735
                {\glsinsert}%
9736
            }%
          }%
9737
          {%
9738
 Make all upper case
            \ifglsused\glslabel
9740
            {%
 Subsequent use
              \MakeUppercase{%
9741
                #2{\glstextaccessdisplay
9742
                     {\glsentrytext{\glslabel}}{\glslabel}}%
9743
                  {\glsdescriptionaccessdisplay
9744
                     {\glsentrydesc{\glslabel}}{\glslabel}}%
9745
                  {\glssymbolaccessdisplay
9746
9747
                     {\glsentrysymbol{\glslabel}}{\glslabel}}%
                  {\glsinsert}}%
9748
            }%
9749
            {%
9750
 First use
```

```
\MakeUppercase{%
                    9751
                                        #1{\glsfirstaccessdisplay
                    9752
                                             {\glsentryfirst{\glslabel}}{\glslabel}}%
                    9753
                                          {\glsdescriptionaccessdisplay
                    9754
                                             {\glsentrydesc{\glslabel}}{\glslabel}}%
                    9755
                                          {\glssymbolaccessdisplay
                    9756
                                             {\glsentrysymbol{\glslabel}}{\glslabel}}%
                    9757
                                          {\glsinsert}}%
                    9758
                                  }%
                    9759
                                }%
                    9760
                             }%
                    9761
                           }%
                    9762
                    9763
                           {%
                      Custom text provided in \glsdisp
                    9764
                             \left\langle \left\langle \right\rangle \right\rangle 
                    9765
                             {%
                      Subsequent use
                    9766
                                #2{\glscustomtext}%
                    9767
                                   {\glsdescriptionaccessdisplay
                                     {\glsentrydesc(\glslabel)}{\glslabel)}{\glslabel)}{\glslabel}}{\glslabel}}{\glslabel}
                    9768
                                   {\glssymbolaccessdisplay
                    9769
                                     {\glslabel}}{\glslabel}}%
                    9770
                    9771
                                   {\glsinsert}%
                    9772
                             }%
                             {%
                    9773
                      First use
                                #1{\glscustomtext}%
                    9774
                    9775
                                   {\glsdescriptionaccessdisplay
                                     {\glsentrydesc(\glslabel)}{\glslabel}}{\glslabel}}{\glslabel}}{\glslabel}}{\glslabel}}{\glslabel}}{\glsentrydesc(\glslabel)}{\glsentrydesc(\glslabel)}{\glsentrydesc(\glslabel)}
                    9776
                                   {\glssymbolaccessdisplay
                    9777
                                     {\glslabel}}{\glslabel}}%
                    9778
                                   {\glsinsert}%
                    9779
                             }%
                    9780
                           }%
                    9781
                    9782}
                    Redefine to use accessibility information.
\glsgenentryfmt
                    9783 \renewcommand*{\glsgenentryfmt}{%
                    9784
                           \ifdefempty\glscustomtext
                    9785
                           {%
                    9786
                             \glsifplural
                             {%
                    9787
                      Plural form
                    9788
                                \glscapscase
                                {%
                    9789
```

Don't adjust case

```
\ifglsused\glslabel
9790
9791
                                       {%
     Subsequent use
9792
                                              \glspluralaccessdisplay
                                                               {\glslabel}}{\glslabel}%
9793
                                              \glsinsert
9794
                                       }%
9795
                                       {%
9796
     First use
                                              \glsfirstpluralaccessdisplay
9797
                                                            {\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabel}{\glslabe
9798
                                              \glsinsert
9799
                                      }%
9800
                                }%
9801
9802
                                {%
     Make first letter upper case
                                       \ifglsused\glslabel
9803
                                       {%
9804
     Subsequent use.
                                              \glspluralaccessdisplay
9805
                                                            {\Glsentryplural{\glslabel}}{\glslabel}%
9806
9807
                                              \glsinsert
                                      }%
9808
                                       {%
9809
     First use
                                              \glsfirstpluralaccessdisplay
9810
                                                            {\Glsentryfirstplural{\glslabel}}{\glslabel}%
9811
                                              \glsinsert
9812
                                       }%
9813
                                }%
9814
                                {%
9815
     Make all upper case
                                       \ifglsused\glslabel
9816
                                       {%
9817
     Subsequent use
9818
                                                  \glspluralaccessdisplay
                                                            {\mfirstucMakeUppercase{\glsentryplural{\glslabel}}}%
9819
                                                            {\glslabel}%
9820
                                                  \mfirstucMakeUppercase{\glsinsert}%
9821
                                       }%
9822
                                       {%
9823
     First use
                                              \glsfirstpluralacessdisplay
9824
                                                         {\mfirstucMakeUppercase{\glsentryfirstplural{\glslabel}}}%
9825
```

```
{\glslabel}%
9826
              \mfirstucMakeUppercase{\glsinsert}%
9827
            }%
9828
          }%
9829
        }%
9830
        {%
9831
 Singular form
9832
          \glscapscase
          {%
9833
 Don't adjust case
            \ifglsused\glslabel
9834
9835
 Subsequent use
               \glstextaccessdisplay{\glsentrytext{\glslabel}}{\glslabel}}%
9836
              \glsinsert
9837
            }%
9838
            {%
9839
 First use
               \glsfirstaccessdisplay{\glsentryfirst{\glslabel}}{\glslabel}}
9840
               \glsinsert
9841
            }%
9842
          }%
9843
          {%
9844
 Make first letter upper case
            \ifglsused\glslabel
9845
9846
            {%
 Subsequent use
9847
                \glstextaccessdisplay{\Glsentrytext{\glslabel}}{\glslabel}%
                \glsinsert
9848
            }%
9849
9850
            {%
 First use
9851
               \glsfirstaccessdisplay{\Glsentryfirst{\glslabel}}{\glslabel}}
               \glsinsert
9852
            }%
9853
          }%
9854
          {%
9855
 Make all upper case
            \ifglsused\glslabel
9856
9857
            {%
 Subsequent use
              \glstextaccessdisplay
9858
                 {\mfirstucMakeUppercase{\glsentrytext{\glslabel}}}{\glslabel}}
9859
              \mfirstucMakeUppercase{\glsinsert}%
9860
```

```
}%
9861
9862
            {%
 First use
9863
              \glsfirstaccessdisplay
                9864
9865
              \mfirstucMakeUppercase{\glsinsert}%
            }%
9866
         }%
9867
       }%
9868
     }%
9869
     {%
9870
 Custom text provided in \glsdisp. (The insert should be empty at this point.)
 The accessibility information, if required, will have to be explicitly included in
 the custom text.
9871
        \glscustomtext\glsinsert
9872
     }%
9873 }
Redefine to include accessibility information.
9874 \renewcommand*{\glsgenacfmt}{%
     \ifdefempty\glscustomtext
9875
     {%
9876
9877
       \ifglsused\glslabel
9878
       {%
 Subsequent use:
          \glsifplural
9879
          {%
9880
 Subsequent plural form:
            \glscapscase
9882
            {%
 Subsequent plural form, don't adjust case:
              \acronymfont
9883
               {\glsshortpluralaccessdisplay
9884
                  {\glsentryshortpl{\glslabel}}{\glslabel}}%
9885
              \glsinsert
9886
            }%
9887
            {%
9888
 Subsequent plural form, make first letter upper case:
              \acronymfont
9889
               {\glsshortpluralaccessdisplay
9890
                  {\Glsentryshortpl{\glslabel}}{\glslabel}}%
9891
9892
              \glsinsert
            }%
9893
```

\glsgenacfmt

{%

```
Subsequent plural form, all caps:
               \mfirstucMakeUppercase
9895
               {\acronymfont
9896
                {\glsshortpluralaccessdisplay
9897
                   {\glsentryshortpl{\glslabel}}{\glslabel}}%
9898
               \glsinsert}%
9899
            }%
9900
          }%
9901
9902
          {%
 Subsequent singular form
9903
             \glscapscase
             {%
9904
 Subsequent singular form, don't adjust case:
               \acronymfont
9905
                {\glsshortaccessdisplay{\glsentryshort{\glslabel}}{\glslabel}}%
9906
               \glsinsert
9907
            }%
9908
             {%
9909
 Subsequent singular form, make first letter upper case:
9910
               \acronymfont
                {\glsshortaccessdisplay{\Glsentryshort{\glslabel}}{\glslabel}}%
9911
               \glsinsert
9912
            }%
9913
9914
             {%
 Subsequent singular form, all caps:
               \mfirstucMakeUppercase
9915
                 {\acronymfont{%
9916
                    \glsshortaccessdisplay{\glsentryshort{\glslabel}}{\glslabel}}%
9917
9918
                  \glsinsert}%
            }%
9919
          }%
9920
        }%
9921
        {%
9922
 First use:
9923
          \glsifplural
          {%
9924
 First use plural form:
9925
             \glscapscase
9926
 First use plural form, don't adjust case:
               \genplacrfullformat{\glslabel}{\glsinsert}%
9927
            }%
9928
             {%
9929
```

```
\Genplacrfullformat{\glslabel}{\glsinsert}%
                                }%
                   9931
                                {%
                   9932
                     First use plural form, all caps:
                                  \mfirstucMakeUppercase
                   9933
                                     {\genplacrfullformat{\glslabel}{\glsinsert}}%
                   9934
                                }%
                   9935
                              }%
                   9936
                              {%
                   9937
                     First use singular form
                   9938
                                \glscapscase
                                {%
                   9939
                     First use singular form, don't adjust case:
                                  \genacrfullformat{\glslabel}{\glsinsert}%
                   9940
                                }%
                   9941
                                {%
                   9942
                     First use singular form, make first letter upper case:
                                   \Genacrfullformat{\glslabel}{\glsinsert}%
                   9943
                   9944
                                }%
                                {%
                   9945
                     First use singular form, all caps:
                                  \mfirstucMakeUppercase
                   9946
                                    {\genacrfullformat{\glslabel}{\glsinsert}}%
                   9947
                   9948
                                }%
                              }%
                   9949
                           }%
                   9950
                         }%
                   9951
                         {%
                   9952
                     User supplied text. (The insert should be empty at this point.) The accessibility
                     information, if required, will have to be explicitly included in the custom text.
                            \glscustomtext
                   9953
                         }%
                   9954
                   9955 }
                    Redefine to include accessibility information.
\genacrfullformat
                   9956 \renewcommand*{\genacrfullformat}[2]{%
                           \glslongaccessdisplay{\glsentrylong{#1}}{#1}#2\space
                   9957
                           (\glsshortaccessdisplay{\protect\firstacronymfont{\glsentryshort{#1}}}{#1})%
                   9958
                   9959 }
                    Redefine to include accessibility information.
\Genacrfullformat
                   9960 \renewcommand*{\Genacrfullformat}[2]{%
                   9961
                           \glslongaccessdisplay{\Glsentrylong{#1}}{#1}#2\space
                   9962
                           (\glsshortaccessdisplay{\protect\firstacronymfont{\Glsentryshort{#1}}}{#1})%
                   9963 }
```

First use plural form, make first letter upper case:

```
Redefine to include accessibility information.
\genplacrfullformat
                    9964 \renewcommand*{\genplacrfullformat}[2]{%
                    9965
                           \glslongpluralaccessdisplay{\glsentrylongpl{#1}}{#1}#2\space
                           (\glsshortpluralaccessdisplay
                    9966
                    9967
                              {\protect\firstacronymfont{\glsentryshortpl{#1}}}{#1}}}
                    9968 }
                     Redefine to include accessibility information.
\Genplacrfullformat
                    9969 \renewcommand*{\Genplacrfullformat}[2]{%
                           \glslongpluralaccessdisplay{\Glsentrylongpl{#1}}{#1}#2\space
                    9970
                           (\glsshortpluralaccessdisplay
                    9971
                              {\protect\firstacronymfont{\glsentryshortpl{#1}}}{#1}}}
                    9972
                    9973 }
         \@acrshort
                    9974 \def\@acrshort#1#2[#3]{%
                    9975
                          \glsdoifexists{#2}%
                    9976
                          {%
                            \edef\@glo@type{\glsentrytype{#2}}%
                    9977
                    9978
                            \let\glsifplural\@secondoftwo
                    9979
                            \let\glscapscase\@firstofthree
                            \let\glsinsert\@empty
                    9980
                            \def\glscustomtext{%
                    9981
                              \acronymfont{\glsshortaccessdisplay{\glsentryshort{#2}}{#2}}#3%
                    9982
                    9983
                            }%
                      Call \@gls@link
                            \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
                    9985
                          }%
                    9986}
         \@Acrshort
                    9987 \def\@Acrshort#1#2[#3] {%
                          \glsdoifexists{#2}%
                          {%
                    9989
                            \edef\@glo@type{\glsentrytype{#2}}%
                    9990
                    9991
                            \let\glsifplural\@secondoftwo
                            \let\glscapscase\@secondofthree
                    9992
                            \let\glsinsert\@empty
                    9993
                            \def\glscustomtext{%
                              \acronymfont{\glsshortaccessdisplay{\Glsentryshort{#2}}{#2}}#3%
                    9995
                    9996
                            }%
                      Call \@gls@link
                            \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
                    9997
                    9998
                          }%
                    9999 }
```

```
\@ACRshort
          10000 \def\@ACRshort#1#2[#3]{%
                \glsdoifexists{#2}%
          10001
          10002
                {%
                  \edef\@glo@type{\glsentrytype{#2}}%
          10003
                  \let\glsifplural\@secondoftwo
          10004
                  \let\glscapscase\@thirdofthree
          10005
          10006
                  \let\glsinsert\@empty
          10007
                  \def\glscustomtext{%
                    \acronymfont{\glsshortaccessdisplay
          10008
                        {\MakeUppercase{\glsentryshort{#2}}}{#2}}#3%
          10009
          10010
                  }%
            Call \@gls@link
                  \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
          10011
                }%
          10012
          10013}
 \@acrlong
          10014 \def \@acrlong#1#2 [#3] {%
                \glsdoifexists{#2}%
          10016
                {%
                  \edef\@glo@type{\glsentrytype{#2}}%
          10017
          10018
                  \let\glsifplural\@secondoftwo
          10019
                  \let\glscapscase\@firstofthree
          10020
                  \let\glsinsert\@empty
          10021
                  \def\glscustomtext{%
                    \acronymfont{\glslongaccessdisplay{\glsentrylong{#2}}{#2}}#3%
          10022
          10023
                  }%
            Call \@gls@link
                  \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
          10024
          10025
                }%
          10026}
 \@Acrlong
          10027 \def\@Acrlong#1#2[#3]{%
          10028
                \glsdoifexists{#2}%
          10029
                {%
          10030
                  \edef\@glo@type{\glsentrytype{#2}}%
          10031
                  \let\glsifplural\@secondoftwo
                  \let\glscapscase\@firstofthree
          10032
                  \let\glsinsert\@empty
          10033
                  \def\glscustomtext{%
          10034
                    10035
          10036
                  }%
```

```
Call \@gls@link
                                                                                   \label{link} $$ \end{minipage} $$ \end{minipag
                                            10037
                                            10038
                                                                        }%
                                            10039 }
\@ACRlong
                                            10040 \def\@ACRlong#1#2[#3]{%
                                                                         \glsdoifexists{#2}%
                                            10041
                                            10042
                                                                                    \edef\@glo@type{\glsentrytype{#2}}%
                                            10043
                                                                                   \let\glsifplural\@secondoftwo
                                            10044
                                            10045
                                                                                   \let\glscapscase\@firstofthree
                                            10046
                                                                                   \let\glsinsert\@empty
                                                                                    \def\glscustomtext{%
                                            10047
                                                                                               \acronymfont{\glslongaccessdisplay{%
                                            10048
                                                                                                        \MakeUppercase{\glsentrylong{#2}}}{#2}#3}%
                                            10049
                                            10050
                                                                                   }%
                                                      Call \@gls@link
                                                                                   \@gls@link[#1]{#2}{\csname gls@\@glo@type @entryfmt\endcsname}%
                                            10051
                                            10052
                                                                         }%
                                            10053}
```

## 6.3 Displaying the Glossary

We need to redefine the way the glossary entries are formatted to include the accessibility support. The predefined glossary styles use \glossentryname, \glossentrydesc and \glossentrysymbol, but we need to provide compatibility with earlier versions in case users have defined their own styles using \accsuppglossaryentryfield and \accsuppglossarysubentryfield.

Now redefine \glossentryname, \glossentrydesc and \glossentrysymbol etc so they use the accessibility stuff.

```
10054 \renewcommand*{\glossentryname}[1]{%
     \glsdoifexists{#1}%
10055
     {%
10056
10057
       \glsnamefont{\glsnameaccessdisplay{\glsentryname{#1}}{#1}}%
10058
     }%
10059}
10060 \renewcommand*{\glossentryname}[1]{%
     \glsdoifexists{#1}%
10061
     {%
10062
       10063
10064
     }%
10065 }
10066 \renewcommand*{\glossentrydesc}[1]{%
     \glsdoifexists{#1}%
```

```
10068
                             \glsdescriptionaccessdisplay{\glsentrydesc{#1}}{#1}%
                    10069
                   10070
                          }%
                    10071 }
                    10072 \renewcommand*{\Glossentrydesc}[1]{%
                          \glsdoifexists{#1}%
                    10073
                          {%
                    10074
                             \glsdescriptionaccessdisplay{\Glsentrydesc{#1}}{#1}%
                    10075
                          }%
                    10076
                    10077 }
                    10078 \renewcommand*{\glossentrysymbol}[1]{%
                    10079
                          \glsdoifexists{#1}%
                    10080
                          {%
                             \glssymbolaccessdisplay{\glsentrysymbol{#1}}{#1}}
                    10081
                    10082
                          }%
                    10083}
                    10084 \renewcommand*{\Glossentrysymbol}[1]{%
                          \glsdoifexists{#1}%
                    10085
                    10086
                          {%
                    10087
                             \glssymbolaccessdisplay{\Glsentrysymbol{#1}}{#1}}
                          }%
                    10088
                    10089}
pglossaryentryfield
                    10090 \newcommand*{\accsuppglossaryentryfield}[5]{%
                          \glossaryentryfield{#1}%
                          {\glsnameaccessdisplay{#2}{#1}}%
                    10093
                          {\glsdescriptionaccessdisplay{#3}{#1}}%
                          {\glssymbolaccessdisplay{#4}{#1}}{#5}%
                    10094
                    10095}
ossarysubentryfield
                    10096 \newcommand*{\accsuppglossarysubentryfield}[6]{%
                          \glossarysubentryfield{#1}{#2}%
                    10097
                    10098
                          {\glsnameaccessdisplay{#3}{#2}}%
                    10099
                          {\glsdescriptionaccessdisplay{#4}{#2}}%
                          {\glssymbolaccessdisplay{#5}{#2}}{#6}%
                    10100
                    10101 }
                      6.4 Acronyms
```

Redefine acronym styles provided by glossaries:

```
Check for long form in case this is a mixed glossary.
          10104
                 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
          10105 }%
          10106 {%
                 \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
          10107
                 \renewcommand*{\genacrfullformat}[2]{%
          10108
                  \glslongaccessdisplay{\glsentrylong{##1}}{##1}##2\space
          10109
          10110
                  (\glsshortaccessdisplay
          10111
                     {\protect\firstacronymfont{\glsentryshort{##1}}}{##1})%
          10112
                 \renewcommand*{\Genacrfullformat}[2]{%
          10113
                  \glslongaccessdisplay{\Glsentrylong{##1}}{##1}##2\space
          10114
                  (\glsshortaccessdisplay
          10115
          10116
                     {\protect\firstacronymfont{\glsentryshort{##1}}}{##1})%
          10117
          10118
                 \renewcommand*{\genplacrfullformat}[2]{%
          10119
                  \glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}##2\space
          10120
                  (\glsshortpluralaccessdisplay
          10121
                     {\protect\firstacronymfont{\glsentryshortpl{##1}}}{##1}}}
          10122
                 \renewcommand*{\Genplacrfullformat}[2]{%
          10123
                  \glslongpluralaccessdisplay{\Glsentrylongpl{##1}}{##1}##2\space
          10124
                  (\glsshortpluralaccessdisplay
          10125
                     {\protect\firstacronymfont{\glsentryshortpl{##1}}}{##1}}}
          10126
          10127
                 \renewcommand*{\acronymentry}[1]{%
          10128
                   \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}
          10129
                 \renewcommand*{\acronymsort}[2]{##1}%
          10130
          10131
                 \renewcommand*{\acronymfont}[1]{##1}%
                 \renewcommand*{\firstacronymfont}[1]{\acronymfont{##1}}%
          10132
          10133
                 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
          10134 }
short-long \langle short \rangle (\langle long \rangle) acronym style.
          10135 \renewacronymstyle{short-long}%
          10136 {%
             Check for long form in case this is a mixed glossary.
                 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
```

```
10138 }%
10139 {%
      \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
10140
      \renewcommand*{\genacrfullformat}[2]{%
10141
       \glsshortaccessdisplay
10142
         {\protect\firstacronymfont{\glsentryshort{##1}}}{##1}##2\space
10143
      (\glslongaccessdisplay{\glsentrylong{##1}}{##1})%
10144
10145
10146
      \renewcommand*{\Genacrfullformat}[2]{%
10147
       \glsshortaccessdisplay
```

```
(\glslongaccessdisplay{\glsentrylong{##1}}{##1})%
                    10149
                    10150
                          }%
                           \renewcommand*{\genplacrfullformat}[2]{%
                    10151
                           \glsshortpluralaccessdisplay
                    10152
                              {\protect\firstacronymfont{\glsentryshortpl{##1}}}{##1}##2\space
                    10153
                            (\glslongpluralaccessdisplay
                    10154
                              {\glsentrylongpl{##1}}{##1})%
                    10155
                    10156
                           \renewcommand*{\Genplacrfullformat}[2]{%
                    10157
                           \glsshortpluralaccessdisplay
                    10158
                            {\bf \{\protect\first acronymfont \{\Glsentryshortpl{\#}1\}\}{\#}1\}}{\#}2\space
                    10159
                    10160
                           (\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1})%
                    10161
                    10162
                          \renewcommand*{\acronymentry}[1]{%
                            \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}%
                    10163
                          \renewcommand*{\acronymsort}[2]{##1}%
                    10164
                    10165
                          \renewcommand*{\acronymfont}[1]{##1}%
                           \renewcommand*{\firstacronymfont}[1]{\acronymfont{##1}}%
                    10166
                    10167
                           \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
                    10168 }
   long-short-desc \langle long \rangle (\{\langle short \rangle\}) acronym style that has an accompanying description (which
                      the user needs to supply).
                    10169 \renewacronymstyle{long-short-desc}%
                    10170 {%
                          \GlsUseAcrEntryDispStyle{long-short}%
                    10171
                    10172 }%
                    10173 {%
                    10174
                          \GlsUseAcrStyleDefs{long-short}%
                    10175
                          \renewcommand*{\GenericAcronymFields}{}%
                    10176
                          \renewcommand*{\acronymsort}[2]{##2}%
                          \renewcommand*{\acronymentry}[1]{%
                    10177
                             \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                    10178
                    10179
                             (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
                    10180 }
                      \langle long \rangle (\textsc{\langle short \rangle}) acronym style that has an accompanying descrip-
long-sc-short-desc
                      tion (which the user needs to supply).
                    10181 \renewacronymstyle{long-sc-short-desc}%
                   10182 {%
                          \GlsUseAcrEntryDispStyle{long-sc-short}%
                    10183
                    10184 }%
                    10185 {%
                          \GlsUseAcrStyleDefs{long-sc-short}%
                    10186
                           \renewcommand*{\GenericAcronymFields}{}%
                    10187
                    10188
                           \renewcommand*{\acronymsort}[2]{##2}%
```

{\protect\firstacronymfont{\Glsentryshort{##1}}}{##1}##2\space

10148

\glslongaccessdisplay{\glsentrylong{##1}}{##1}\space

\renewcommand\*{\acronymentry}[1]{%

10189 10190

```
10191
                             (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
                    10192}
                      \langle long \rangle (\textsmaller{\langle short \rangle}) acronym style that has an accompanying de-
long-sm-short-desc
                      scription (which the user needs to supply).
                    10193 \renewacronymstyle{long-sm-short-desc}%
                    10194 {%
                    10195
                           \GlsUseAcrEntryDispStyle{long-sm-short}%
                    10196 }%
                    10197 {%
                    10198
                           \GlsUseAcrStyleDefs{long-sm-short}%
                    10199
                           \renewcommand*{\GenericAcronymFields}{}%
                           \renewcommand*{\acronymsort}[2]{##2}%
                    10200
                    10201
                           \renewcommand*{\acronymentry}[1]{%
                             \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                    10202
                    10203
                             (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
                    10204 }
   short-long-desc
                      \langle short \rangle (\{\langle long \rangle\}) acronym style that has an accompanying description (which
                      the user needs to supply).
                    10205 \renewacronymstyle{short-long-desc}%
                    10206 {%
                           \GlsUseAcrEntryDispStyle{short-long}%
                    10207
                    10208 }%
                    10209 {%
                           \GlsUseAcrStyleDefs{short-long}%
                    10210
                           \renewcommand*{\GenericAcronymFields}{}%
                    10211
                    10212
                           \renewcommand*{\acronymsort}[2]{##2}%
                           \renewcommand*{\acronymentry}[1]{%
                    10213
                             \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                    10214
                             (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
                    10215
                    10216}
                      \langle long \rangle (\textsc{\langle short \rangle}) acronym style that has an accompanying descrip-
sc-short-long-desc
                      tion (which the user needs to supply).
                    10217 \renewacronymstyle{sc-short-long-desc}%
                    10218 {%
                    10219
                           \GlsUseAcrEntryDispStyle{sc-short-long}%
                    10220 }%
                    10221 {%
                    10222
                           \GlsUseAcrStyleDefs{sc-short-long}%
                           \renewcommand*{\GenericAcronymFields}{}%
                    10223
                    10224
                           \renewcommand*{\acronymsort}[2]{##2}%
                           \renewcommand*{\acronymentry}[1]{%
                    10225
                             \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                    10226
                              (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{\#1})}{\#1}))
                    10227
```

10228 }

```
\langle long \rangle (\textsmaller{\langle short \rangle}) acronym style that has an accompanying de-
sm-short-long-desc
                       scription (which the user needs to supply).
                    10229 \renewacronymstyle{sm-short-long-desc}%
                    10230 {%
                           \GlsUseAcrEntryDispStyle{sm-short-long}%
                    10231
                    10232 }%
                    10233 {%
                    10234
                           \GlsUseAcrStyleDefs{sm-short-long}%
                           \renewcommand*{\GenericAcronymFields}{}%
                    10235
                    10236
                           \renewcommand*{\acronymsort}[2]{##2}%
                            \renewcommand*{\acronymentry}[1]{%
                    10237
                              \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                    10238
                               (\glsshortaccessdisplay{\acronymfont{\glsentryshort{$\#1$}}{$\#1$})} \% 
                    10239
                    10240 }
                 dua \langle long \rangle only acronym style.
                    10241 \renewacronymstyle{dua}%
                    10242 {%
                       Check for long form in case this is a mixed glossary.
                    10243
                           \ifdefempty\glscustomtext
                    10244
                              \ifglshaslong{\glslabel}%
                    10245
                    10246
                    10247
                                \glsifplural
                    10248
                       Plural form:
                                  \glscapscase
                    10249
                    10250
                                  {%
                       Plural form, don't adjust case:
                                     \glslongpluralaccessdisplay{\glsentrylongpl{\glslabel}}{\glslabel}%
                    10251
                                     \glsinsert
                    10252
                                  }%
                    10253
                    10254
                                  {%
                       Plural form, make first letter upper case:
                    10255
                                     \glslongpluralaccessdisplay{\Glsentrylongpl{\glslabel}}{\glslabel}}
                                     \glsinsert
                    10256
                                  }%
                    10257
                    10258
                                  {%
                       Plural form, all caps:
                    10259
                                     \glslongpluralaccessdisplay
                                       {\mfirstucMakeUppercase{\glsentrylongpl{\glslabel}}}{\glslabel}}
                    10260
                                     \mfirstucMakeUppercase{\glsinsert}%
                    10261
                                  }%
                    10262
                                }%
                    10263
                    10264
                                {%
```

```
Singular form
10265
             \glscapscase
             {%
10266
  Singular form, don't adjust case:
               \glslongaccess display{\glsentrylong{\glslabel}}{\glslabel}\glsinsert
10267
             }%
10268
             {%
10269
  Subsequent singular form, make first letter upper case:
10270
               \glslongaccessdisplay{\Glsentrylong{\glslabel}}{\glslabel}\glsinsert
             }%
10271
             {%
10272
  Subsequent singular form, all caps:
               \glslongaccessdisplay
10274
                {\mfirstucMakeUppercase
                    {\glsentrylong{\glslabel}\glsinsert}}{\glslabel}%
10275
10276
               \mfirstucMakeUppercase{\glsinsert}%
             }%
10277
          }%
10278
        }%
10279
10280
        {%
  Not an acronym:
10281
           \glsgenentryfmt
        }%
10282
      }%
10283
10284
      {\glscustomtext\glsinsert}%
10285 }%
10286 { %
      \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
10287
10288
      \renewcommand*{\acrfullfmt}[3]{%
10289
        \glslink[##1]{##2}{%
           \glslongaccessdisplay{\glsentrylong{##2}}{##2}##3\space
10290
10291
           (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##2}}}{##2})}}%
      \renewcommand*{\Acrfullfmt}[3]{%
10292
        \glslink[##1]{##2}{%
10293
           \glslongaccessdisplay{\Glsentrylong{##2}}{##2}##3\space
10294
           (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##2}}}{##2})}}%
10295
      \renewcommand*{\ACRfullfmt}[3]{%
10296
        \glslink[##1]{##2}{%
10297
           \glslongaccessdisplay
10298
10299
             {\mfirstucMakeUppercase{\glsentrylong{##2}}{##2}##3\space
           (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##2}}}{##2})}}}%
10300
      \renewcommand*{\acrfullplfmt}[3]{%
10301
        \glslink[##1]{##2}{%
10302
           \glslongpluralaccessdisplay
10303
             {\glsentrylongpl{##2}}{##2}##3\space
10304
10305
           (\glsshortpluralaccessdisplay
```

{\acronymfont{\glsentryshortpl{##2}}}{##2})}}%

10306

```
\renewcommand*{\Acrfullplfmt}[3]{%
        10307
                 \glslink[##1]{##2}{%
        10308
                   \glslongpluralaccessdisplay
        10309
                     {\Glsentrylongpl{##2}}{##2}##3\space
        10310
        10311
                   (\glsshortpluralaccessdisplay
                     {\acronymfont{\glsentryshortpl{##2}}}{##2})}}%
        10312
               \renewcommand*{\ACRfullplfmt}[3]{%
        10313
                 \glslink[##1]{##2}{%
        10314
                   \glslongpluralaccessdisplay
        10315
                      {\mfirstucMakeUppercase{\glsentrylongpl{##2}}{##2}}##3\space
        10316
                   (\glsshortpluralaccessdisplay
        10317
                      {\acronymfont{\glsentryshortpl{##2}}}{##2})}}}%
        10318
        10319
               \renewcommand*{\glsentryfull}[1]{%
        10320
                 \glslongaccessdisplay{\glsentrylong{##1}}\space
        10321
                 (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})%
        10322
              \renewcommand*{\Glsentryfull}[1]{%
        10323
        10324
                 \glslongaccessdisplay{\Glsentrylong{##1}}{##1}\space
                 (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})%
        10325
        10326
              }%
               \renewcommand*{\glsentryfullpl}[1]{%
        10327
                 \glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}\space
        10328
        10329
                 (\glsshortpluralaccessdisplay{\acronymfont{\glsentryshortpl{##1}}}{##1})%
        10330
              }%
               \renewcommand*{\Glsentryfullpl}[1]{%
        10331
                 \glslongpluralaccessdisplay{\Glsentrylongpl{##1}}{##1}\space
        10332
                 (\glsshortpluralaccessdisplay{\acronymfont{\glsentryshortpl{##1}}}{##1})%
        10333
        10334
        10335
               \renewcommand*{\acronymentry}[1]{%
                  \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}%
        10336
              \renewcommand*{\acronymsort}[2]{##1}%
        10337
        10338
               \renewcommand*{\acronymfont}[1]{##1}%
        10339
              \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
        10340 }
dua-desc (long) only acronym style with user-supplied description.
        10341 \renewacronymstyle{dua-desc}%
        10342 {%
        10343
              \GlsUseAcrEntryDispStyle{dua}%
        10344 }%
        10345 {%
        10346
              \GlsUseAcrStyleDefs{dua}%
              \renewcommand*{\GenericAcronymFields}{}%
        10347
              \renewcommand*{\acronymentry}[1]{%
        10348
                 \glslongaccessdisplay{\acronymfont{\glsentrylong{##1}}}{##1}}%
        10349
              \renewcommand*{\acronymsort}[2]{##2}%
        10350
        10351 }%
```

footnote  $\langle short \rangle \setminus footnote \{\langle long \rangle\}$  acronym style.

```
10352 \renewacronymstyle{footnote}%
10353 {%
  Check for long form in case this is a mixed glossary.
      \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
10355 }%
10356 {%
      \renewcommand*{\GenericAcronymFields}{\description={\the\glslongtok}}\%
10357
  Need to ensure hyperlinks are switched off on first use:
10358
      \glshyperfirstfalse
10359
      \renewcommand*{\genacrfullformat}[2]{%
       \glsshortaccessdisplay
10360
         {\protect\firstacronymfont{\glsentryshort{##1}}}{##1}##2%
10361
       \protect\footnote{\glslongaccessdisplay{\glsentrylong{##1}}{##1}}%
10362
10363
      \renewcommand*{\Genacrfullformat}[2]{%
10364
10365
       \glsshortaccessdisplay
         {\firstacronymfont{\Glsentryshort{##1}}}{##1}##2%
10366
       \protect\footnote{\glslongaccessdisplay{\glsentrylong{##1}}{##1}}%
10367
10368
      }%
      \renewcommand*{\genplacrfullformat}[2]{%
10369
       \glsshortpluralaccessdisplay
10370
         {\protect\firstacronymfont{\glsentryshortpl{##1}}}{##1}}##2%
10371
       \protect\footnote{\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}}%
10372
10373
10374
      \renewcommand*{\Genplacrfullformat}[2]{%
       \glsshortpluralaccessdisplay
10375
         {\protect\firstacronymfont{\Glsentryshortpl{##1}}}{##1}##2%
10376
10377
       \protect\footnote{\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}}%
10378
10379
      \renewcommand*{\acronymentry}[1]{%
        \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}%
10380
      \renewcommand*{\acronymsort}[2]{##1}%
10381
      \renewcommand*{\acronymfont}[1]{##1}%
10382
      \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
10383
  Don't use footnotes for \acrfull:
      \renewcommand*{\acrfullfmt}[3]{%
10384
        \glslink[##1]{##2}{%
10385
          \glsshortaccessdisplay{\acronymfont{\glsentryshort{##2}}}{##2}##3\space
10386
10387
          (\glslongaccessdisplay{\glsentrylong{##2}}{##2})}}%
      \renewcommand*{\Acrfullfmt}[3]{%
10388
10389
        \glslink[##1]{##2}{%
          \glsshortaccessdisplay{\acronymfont{\Glsentryshort{##2}}}{##2}##3\space
10390
          (\glslongaccessdisplay{\glsentrylong{##2}}{##2})}}%
10391
      \renewcommand*{\ACRfullfmt}[3]{%
10392
        \glslink[##1]{##2}{%
10393
          \glsshortaccessdisplay
10394
10395
             {\mfirstucMakeUppercase
                {\acronymfont{\glsentryshort{##2}}}{##2}##3\space
10396
```

```
10397
                     (\glslongaccessdisplay{\glsentrylong{##2}}{##2})}}}%
                 \renewcommand*{\acrfullplfmt}[3]{%
           10398
                   \glslink[##1]{##2}{%
           10399
                     \glsshortpluralaccessdisplay
           10400
                        {\acronymfont{\glsentryshortpl{##2}}}{##2}##3\space
           10401
                     (\glslongpluralaccessdisplay{\glsentrylongpl{##2}}{##2})}}%
           10402
                 \renewcommand*{\Acrfullplfmt}[3]{%
           10403
                   \glslink[##1]{##2}{%
           10404
                     \glsshortpluralaccessdisplay
           10405
                       {\acronymfont{\Glsentryshortpl{##2}}}{##2}##3\space
           10406
                     (\glslongpluralaccessdisplay{\glsentrylongpl{##2}})}}%
           10407
                 \renewcommand*{\ACRfullplfmt}[3]{%
           10408
           10409
                   \glslink[##1]{##2}{%
           10410
                     \glsshortpluralaccessdisplay
           10411
                       {\mfirstucMakeUppercase
                          {\acronymfont{\glsentryshortpl{##2}}}{##2}##3\space
           10412
                     (\glslongpluralaccessdisplay{\glsentrylongpl{##2}}{##2})}}}%
           10413
             Similarly for \glsentryfull etc:
           10414
                 \renewcommand*{\glsentryfull}[1]{%
                    \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}\space
           10415
                     10416
                 \renewcommand*{\Glsentryfull}[1]{%
           10417
           10418
                    \glsshortaccessdisplay{\acronymfont{\Glsentryshort{##1}}}{##1}\space
                    (\glslongaccessdisplay{\glsentrylong{##1}}{##1})}%
           10419
                 \renewcommand*{\glsentryfullpl}[1]{%
           10420
                    \glsshortpluralaccessdisplay
           10421
                      {\acronymfont{\glsentryshortpl{##1}}}{##1}\space
           10422
                      (\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1})}%
           10423
                 \renewcommand*{\Glsentryfullpl}[1]{%
           10424
           10425
                    \glsshortpluralaccessdisplay
                       10426
                    (\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1})}%
           10427
           10428 }
             \textsc{\langle short \rangle}\footnote{\langle long \rangle} acronym style.
footnote-sc
           10429 \renewacronymstyle{footnote-sc}%
           10430 {%
                 \GlsUseAcrEntryDispStyle{footnote}%
           10431
           10432 }%
           10433 {%
                 \GlsUseAcrStyleDefs{footnote}%
           10434
                 \renewcommand{\acronymentry}[1]{%
           10435
                    \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}
           10436
                 \renewcommand{\acronymfont}[1]{\textsc{##1}}%
           10437
           10438
                 \renewcommand*{\acrpluralsuffix}{\glstextup{\glspluralsuffix}}%
           10439 }%
```

footnote-sm  $\textsmaller{\langle short \rangle}\$ footnote{ $\langle long \rangle$ } acronym style.

```
10440 \renewacronymstyle{footnote-sm}%
                  10441 {%
                  10442
                         \GlsUseAcrEntryDispStyle{footnote}%
                  10443 }%
                  10444 {%
                         \GlsUseAcrStyleDefs{footnote}%
                  10445
                         \renewcommand{\acronymentry}[1]{%
                  10446
                           \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}
                  10447
                         \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%
                  10448
                  10449
                         \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
                  10450 }%
                    \langle short \rangle \setminus footnote\{\langle long \rangle\} acronym style that has an accompanying descrip-
   footnote-desc
                    tion (which the user needs to supply).
                  10451 \renewacronymstyle{footnote-desc}%
                  10452 {%
                         \GlsUseAcrEntryDispStyle{footnote}%
                  10453
                  10454 }%
                  10455 {%
                  10456
                        \GlsUseAcrStyleDefs{footnote}%
                  10457
                         \renewcommand*{\GenericAcronymFields}{}%
                         \renewcommand*{\acronymsort}[2]{##2}%
                  10458
                         \renewcommand*{\acronymentry}[1]{%
                  10459
                           \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                  10460
                  10461
                            (\glsshortaccessdisplay{\acronymfont{\glsentryshort{$\#1$}}{$\#1$})} \% 
                  10462 }
                    \text{textsc}(\langle short \rangle) \setminus \{(long)\}\ acronym style that has an accompany-
footnote-sc-desc
                    ing description (which the user needs to supply).
                  10463 \renewacronymstyle{footnote-sc-desc}%
                  10464 {%
                         \GlsUseAcrEntryDispStyle{footnote-sc}%
                  10465
                  10466 }%
                  10467 {%
                  10468
                        \GlsUseAcrStyleDefs{footnote-sc}%
                  10469
                         \renewcommand*{\GenericAcronymFields}{}%
                        \renewcommand*{\acronymsort}[2]{##2}%
                  10470
                         \renewcommand*{\acronymentry}[1]{%
                  10471
                           \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
                  10472
                           (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
                  10473
                  10474 }
footnote-sm-desc \textsmaller{\langle short \rangle}\footnote{\langle long \rangle} acronym style that has an accom-
                    panying description (which the user needs to supply).
                  10475 \renewacronymstyle{footnote-sm-desc}%
                  10476 {%
                  10477 \GlsUseAcrEntryDispStyle{footnote-sm}%
                  10478 }%
                  10479 {%
```

```
\lambda{GlsUseAcrStyleDefs{footnote-sm}%
\text{\text{lower} \text{\text{GenericAcronymFields}}}\\
\text{\text{renewcommand*{\acronymsort}[2]{\##2}%}
\text{\text{lower} \text{\acronymentry}[1]{\%}
\text{\glslongaccessdisplay{\glsentrylong{\##1}}{\##1}\space}
\text{\glsshortaccessdisplay{\acronymfont{\glsentryshort{\##1}}}{\##1}}\\
\text{\text{lower} \text{\text{\glsentryshort}{\##1}}}\\
\text{\text{\glsshortaccessdisplay}{\acronymfont{\glsentryshort{\##1}}}{\##1}}\\\
\text{\text{\glsentryshort}{\pmathred{\mathred{\glsentryshort}{\pmathred{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\glsentryshort}{\mathred{\glsentryshort}{\mathred{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentryshort}{\glsentry
```

Use \newacronymhook to modify the key list to set the access text to the long version by default.

```
10487 \renewcommand*{\newacronymhook}{\%}
10488 \edef\@gls@keylist{\shortaccess=\the\glslongtok,\%}
10489 \the\glskeylisttok}\%
10490 \expandafter\glskeylisttok\expandafter{\@gls@keylist}\%
10491}
```

efaultNewAcronymDef Modify default style to use access text:

```
10492 \renewcommand*{\DefaultNewAcronymDef}{%
      \edef\@do@newglossaryentry{%
10494
        \noexpand\newglossaryentry{\the\glslabeltok}%
10495
          type=\acronymtype,%
10496
          name={\the\glsshorttok},%
10497
10498
          description={\the\glslongtok},%
          descriptionaccess=\relax,
10499
10500
          text={\the\glsshorttok},%
          access={\noexpand\@glo@textaccess},%
10501
          sort={\the\glsshorttok},%
10502
10503
          short={\the\glsshorttok},%
          shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10504
          shortaccess={\the\glslongtok},%
10505
          long={\the\glslongtok},%
10506
          longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10507
10508
          descriptionplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10509
          first={\noexpand\glslongaccessdisplay
             {\the\glslongtok}{\the\glslabeltok}\space
10510
             (\noexpand\glsshortaccessdisplay
10511
               {\the\glsshorttok}{\the\glslabeltok})},%
10512
          plural={\the\glsshorttok\acrpluralsuffix},%
10513
          firstplural={\noexpand\glslongpluralaccessdisplay
10514
             {\noexpand\@glo@longpl}{\the\glslabeltok}\space
10515
             (\noexpand\glsshortpluralaccessdisplay
10516
               {\noexpand\@glo@shortpl}{\the\glslabeltok})},%
10517
          firstaccess=\relax,
10518
          firstpluralaccess=\relax,
10519
          textaccess={\noexpand\@glo@shortaccess},%
10520
10521
          \the\glskeylisttok
        }%
10522
      }%
10523
```

```
10524
      \let\@org@gls@assign@firstpl\gls@assign@firstpl
      \let\@org@gls@assign@plural\gls@assign@plural
10525
      \let\@org@gls@assign@descplural\gls@assign@descplural
10526
      \def\gls@assign@firstpl##1##2{%
10527
10528
        \@@gls@expand@field{##1}{firstpl}{##2}%
10529
      \def\gls@assign@plural##1##2{%
10530
        \@@gls@expand@field{##1}{plural}{##2}%
10531
10532
      \def\gls@assign@descplural##1##2{%
10533
        \label{lem:condition} $$\00gls0expand0field{$\#1${descplural}{$\#2$}\%} $$
10534
10535
10536
      \@do@newglossaryentry
10537
      \let\gls@assign@firstpl\@org@gls@assign@firstpl
      \let\gls@assign@plural\@org@gls@assign@plural
10538
      \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
10539
10540 }
      \edef\@do@newglossaryentry{%
        \noexpand\newglossaryentry{\the\glslabeltok}%
```

#### otnoteNewAcronymDef

```
10541 \renewcommand*{\DescriptionFootnoteNewAcronymDef}{%
10542
10543
10544
          type=\acronymtype,%
10545
10546
          name={\noexpand\acronymfont{\the\glsshorttok}},%
          sort={\the\glsshorttok},%
10547
          text={\the\glsshorttok},%
10548
10549
          short={\the\glsshorttok},%
          shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10550
10551
          shortaccess={\the\glslongtok},%
          long={\the\glslongtok},%
10552
          longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10553
          access={\noexpand\@glo@textaccess},%
10554
          plural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10555
10556
          symbol={\the\glslongtok},%
          symbolplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10557
          firstpluralaccess=\relax,
10558
          textaccess={\noexpand\@glo@shortaccess},%
10559
10560
          \the\glskeylisttok
10561
        }%
10562
      \let\@org@gls@assign@firstpl\gls@assign@firstpl
10563
      \let\@org@gls@assign@plural\gls@assign@plural
10564
      \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
10565
10566
      \def\gls@assign@firstpl##1##2{%
        \@@gls@expand@field{##1}{firstpl}{##2}%
10567
10568
      \def\gls@assign@plural##1##2{%
10569
        \@@gls@expand@field{##1}{plural}{##2}%
10570
```

```
10571
                          \def\gls@assign@symbolplural##1##2{%
                   10572
                   10573
                            \@@gls@expand@field{##1}{symbolplural}{##2}%
                   10574
                   10575
                          \@do@newglossaryentry
                          \let\gls@assign@plural\@org@gls@assign@plural
                   10576
                          \let\gls@assign@firstpl\@org@gls@assign@firstpl
                   10577
                          \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
                   10578
                   10579 }
iptionNewAcronymDef
                   10580 \renewcommand*{\DescriptionNewAcronymDef}{%
                          \edef\@do@newglossaryentry{%
                            \noexpand\newglossaryentry{\the\glslabeltok}%
                   10582
                   10583
                              type=\acronymtype,%
                   10584
                              name={\noexpand
                   10585
                                \acrnameformat{\the\glsshorttok}{\the\glslongtok}},%
                   10586
                   10587
                              access={\noexpand\@glo@textaccess},%
                   10588
                              sort={\the\glsshorttok},%
                              short={\the\glsshorttok},%
                   10589
                              shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                   10590
                              shortaccess={\the\glslongtok},%
                   10591
                              long={\the\glslongtok},%
                   10592
                   10593
                              longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
                              first={\the\glslongtok},%
                   10594
                              firstaccess=\relax,
                   10595
                              firstplural={\the\glslongtok\noexpand\acrpluralsuffix},%
                   10596
                              text={\the\glsshorttok},%
                   10597
                   10598
                              textaccess={\the\glslongtok},%
                              plural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                   10599
                   10600
                              symbol={\noexpand\@glo@text},%
                              symbolaccess={\noexpand\@glo@textaccess},%
                   10601
                              symbolplural={\noexpand\@glo@plural},%
                   10602
                              firstpluralaccess=\relax,
                   10603
                              textaccess={\noexpand\@glo@shortaccess},%
                   10604
                              \the\glskeylisttok}%
                   10605
                          }%
                   10606
                          \let\@org@gls@assign@firstpl\gls@assign@firstpl
                   10607
                   10608
                          \let\@org@gls@assign@plural\gls@assign@plural
                   10609
                          \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
                   10610
                          \def\gls@assign@firstpl##1##2{%
                            \@@gls@expand@field{##1}{firstpl}{##2}%
                   10611
                   10612
                   10613
                          \def\gls@assign@plural##1##2{%
                   10614
                            \@@gls@expand@field{##1}{plural}{##2}%
                   10615
```

\def\gls@assign@symbolplural##1##2{%

\@@gls@expand@field{##1}{symbolplural}{##2}%

10616

10617

```
10619
                                                        \@do@newglossaryentry
                                                        \let\gls@assign@firstpl\@org@gls@assign@firstpl
                                          10620
                                                        \let\gls@assign@plural\@org@gls@assign@plural
                                          10621
                                          10622
                                                        \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
                                          10623 }
otnoteNewAcronymDef
                                          10624 \renewcommand*{\FootnoteNewAcronymDef}{%
                                          10625
                                                        \edef\@do@newglossaryentry{%
                                                            \verb|\noexpand| newglossaryentry{\the\glslabeltok}| % \cite{Noexpand} $$ \cite{Noexpand} $
                                          10626
                                          10627
                                          10628
                                                                 type=\acronymtype,%
                                                                 name={\noexpand\acronymfont{\the\glsshorttok}},%
                                          10629
                                                                 sort={\the\glsshorttok},%
                                          10630
                                                                 text={\the\glsshorttok},%
                                          10631
                                                                 textaccess={\the\glslongtok},%
                                          10632
                                                                 access={\noexpand\@glo@textaccess},%
                                          10633
                                          10634
                                                                 plural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                                          10635
                                                                 short={\the\glsshorttok},%
                                                                 shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
                                          10636
                                                                 long={\the\glslongtok},%
                                          10637
                                                                 longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
                                          10638
                                          10639
                                                                 description={\the\glslongtok},%
                                          10640
                                                                 descriptionplural={\the\glslongtok\noexpand\acrpluralsuffix},%
                                                                 \the\glskeylisttok
                                          10641
                                                           }%
                                          10642
                                          10643
                                                       }%
                                                        \let\@org@gls@assign@plural\gls@assign@plural
                                          10644
                                          10645
                                                        \let\@org@gls@assign@firstpl\gls@assign@firstpl
                                                        \let\@org@gls@assign@descplural\gls@assign@descplural
                                          10646
                                          10647
                                                        \def\gls@assign@firstpl##1##2{%
                                                            \00gls0expand0field{##1}{firstpl}{##2}%
                                          10648
                                          10649
                                          10650
                                                        \def\gls@assign@plural##1##2{%
                                                            \@@gls@expand@field{##1}{plural}{##2}%
                                          10651
                                          10652
                                                        \def\gls@assign@descplural##1##2{%
                                          10653
                                                            \@@gls@expand@field{##1}{descplural}{##2}%
                                          10654
                                          10655
                                          10656
                                                        \@do@newglossaryentry
                                                        \let\gls@assign@plural\@org@gls@assign@plural
                                          10657
                                                        \let\gls@assign@firstpl\@org@gls@assign@firstpl
                                          10658
                                                        \let\gls@assign@descplural\@org@gls@assign@descplural
                                          10659
                                          10660 }
\SmallNewAcronymDef
                                          10661 \renewcommand*{\SmallNewAcronymDef}{%
                                                        \edef\@do@newglossaryentry{%
```

10618

```
10663
        \noexpand\newglossaryentry{\the\glslabeltok}%
10664
          type=\acronymtype,%
10665
          name={\noexpand\acronymfont{\the\glsshorttok}},%
10666
          access={\noexpand\@glo@symbolaccess},%
10667
          sort={\the\glsshorttok},%
10668
          short={\the\glsshorttok},%
10669
          shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10670
          shortaccess={\the\glslongtok},%
10671
          long={\the\glslongtok},%
10672
          longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10673
          text={\noexpand\@glo@short},%
10674
10675
          textaccess={\noexpand\@glo@shortaccess},%
10676
          plural={\noexpand\@glo@shortpl},%
          first={\the\glslongtok},%
10677
          firstaccess=\relax,
10678
          firstplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10679
10680
          description={\noexpand\@glo@first},%
          descriptionplural={\noexpand\@glo@firstplural},%
10681
10682
          symbol={\the\glsshorttok},%
          symbolaccess={\the\glslongtok},%
10683
10684
          symbolplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10685
          \the\glskeylisttok
10686
        }%
      }%
10687
      \let\@org@gls@assign@firstpl\gls@assign@firstpl
10688
      \let\@org@gls@assign@plural\gls@assign@plural
10689
10690
      \let\@org@gls@assign@descplural\gls@assign@descplural
      \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
10691
      \def\gls@assign@firstpl##1##2{%
10692
        \@@gls@expand@field{##1}{firstpl}{##2}%
10693
10694
      \def\gls@assign@plural##1##2{%
10695
        \00gls0expand0field{##1}{plural}{##2}%
10696
10697
      \def\gls@assign@descplural##1##2{%
10698
        \@@gls@expand@field{##1}{descplural}{##2}%
10699
10700
10701
      \def\gls@assign@symbolplural##1##2{%
        \@@gls@expand@field{##1}{symbolplural}{##2}%
10702
10703
      \@do@newglossaryentry
10704
10705
      \let\gls@assign@firstpl\@org@gls@assign@firstpl
      \let\gls@assign@plural\@org@gls@assign@plural
10706
10707
      \let\gls@assign@descplural\@org@gls@assign@descplural
      \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
10708
10709 }
```

The following are kept for compatibility with versions before 3.0:

```
\glsshortaccesskey
                         \newcommand*{\glsshortaccesskey}{\glsshortkey access}%
                   10710
hortpluralaccesskey
                         \newcommand*{\glsshortpluralaccesskey}{\glsshortpluralkey access}%
                   10711
 \glslongaccesskey
                         \newcommand*{\glslongaccesskey}{\glslongkey access}%
                   10712
longpluralaccesskey
                         \newcommand*{\glslongpluralaccesskey}{\glslongpluralkey access}%
                     6.5 Debugging Commands
\showglonameaccess
                   10714 \newcommand*{\showglonameaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@textaccess\endcsname
                   10716}
\showglotextaccess
                   10717 \newcommand*{\showglotextaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@textaccess\endcsname
                   10719}
{	t showglopluralaccess}
                   10720 \newcommand*{\showglopluralaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@pluralaccess\endcsname
                   10722 }
\showglofirstaccess
                   10723 \newcommand*{\showglofirstaccess}[1]{%
                        \expandafter\show\csname glo@\glsdetoklabel{#1}@firstaccess\endcsname
                   10725}
lofirstpluralaccess
                   10726 \newcommand*{\showglofirstpluralaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@firstpluralaccess\endcsname
                   10728}
showglosymbolaccess
                   10729 \newcommand*{\showglosymbolaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@symbolaccess\endcsname
                   10730
                   10731 }
osymbolpluralaccess
                   10732 \newcommand*{\showglosymbolpluralaccess}[1]{%
                   10733
                        \expandafter\show\csname glo@\glsdetoklabel{#1}@symbolpluralaccess\endcsname
```

10734 }

```
\showglodescaccess
                   10735 \newcommand*{\showglodescaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@descaccess\endcsname
                   10737 }
glodescpluralaccess
                   10738 \newcommand*{\showglodescpluralaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@descpluralaccess\endcsname
\showgloshortaccess
                   10741 \newcommand*{\showgloshortaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@shortaccess\endcsname
                   10743 }
loshortpluralaccess
                   10744 \newcommand*{\showgloshortpluralaccess}[1]{%
                         \expandafter\show\csname glo@\glsdetoklabel{#1}@shortpluralaccess\endcsname
                   10746}
\showglolongaccess
                   10747 \newcommand*{\showglolongaccess}[1]{%
                        \expandafter\show\csname glo@\glsdetoklabel{#1}@longaccess\endcsname
                   10749 }
glolongpluralaccess
                   10750 \newcommand*{\showglolongpluralaccess}[1]{%
```

## 7 Multi-Lingual Support

Many thanks to everyone who contributed to the translations both via email and on comp.text.tex.

\expandafter\show\csname glo@\glsdetoklabel{#1}@longpluralaccess\endcsname

## 7.1 Babel Captions

10752 }

Define captions if multi-lingual support is required, but the package is not loaded.

```
10753 \NeedsTeXFormat{LaTeX2e}
10754 \ProvidesPackage{glossaries-babel}[2013/11/14 v4.0 (NLCT)]
English:
10755 \@ifundefined{captionsenglish}{}{%
10756 \addto\captionsenglish{%
10757 \renewcommand*{\glossaryname}{Glossary}%
10758 \renewcommand*{\acronymname}{Acronyms}%
```

```
10759
        \renewcommand*{\entryname}{Notation}%
        \renewcommand*{\descriptionname}{Description}%
10760
10761
        \renewcommand*{\symbolname}{Symbol}%
        \renewcommand*{\pagelistname}{Page List}%
10762
10763
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10764
10765 }%
10766 }
10767 \@ifundefined{captionsamerican}{}{%
10768
      \addto\captionsamerican{%
        \renewcommand*{\glossaryname}{Glossary}%
10769
        \renewcommand*{\acronymname}{Acronyms}%
10770
10771
        \renewcommand*{\entryname}{Notation}%
10772
        \renewcommand*{\descriptionname}{Description}%
10773
        \renewcommand*{\symbolname}{Symbol}%
        \renewcommand*{\pagelistname}{Page List}%
10774
10775
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
10776
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10777 }%
10778}
10779 \@ifundefined{captionsaustralian}{}{%
      \addto\captionsaustralian{%
        \renewcommand*{\glossaryname}{Glossary}%
10781
10782
        \renewcommand*{\acronymname}{Acronyms}%
        \renewcommand*{\entryname}{Notation}%
10783
        \renewcommand*{\descriptionname}{Description}%
10784
        \renewcommand*{\symbolname}{Symbol}%
10785
10786
        \renewcommand*{\pagelistname}{Page List}%
10787
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10788
10789 }%
10790 }
10791 \@ifundefined{captionsbritish}{}{%
      \addto\captionsbritish{%
10792
        \renewcommand*{\glossaryname}{Glossary}%
10793
10794
        \renewcommand*{\acronymname}{Acronyms}%
10795
        \renewcommand*{\entryname}{Notation}%
        \renewcommand*{\descriptionname}{Description}%
10796
10797
        \renewcommand*{\symbolname}{Symbol}%
        \renewcommand*{\pagelistname}{Page List}%
10798
10799
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10800
10801 }}%
10802 \@ifundefined{captionscanadian}{}{%
10803
      \addto\captionscanadian{%
        \renewcommand*{\glossaryname}{Glossary}%
10804
10805
        \renewcommand*{\acronymname}{Acronyms}%
        \renewcommand*{\entryname}{Notation}%
10806
        \renewcommand*{\descriptionname}{Description}%
10807
```

```
10808
        \renewcommand*{\symbolname}{Symbol}%
        \renewcommand*{\pagelistname}{Page List}%
10809
10810
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10811
10812 }%
10813 }
10814 \@ifundefined{captionsnewzealand}{}{%
      \addto\captionsnewzealand{%
10815
        \renewcommand*{\glossaryname}{Glossary}%
10816
10817
        \renewcommand*{\acronymname}{Acronyms}%
10818
        \renewcommand*{\entryname}{Notation}%
        \renewcommand*{\descriptionname}{Description}%
10819
10820
        \renewcommand*{\symbolname}{Symbol}%
10821
        \renewcommand*{\pagelistname}{Page List}%
10822
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10823
10824 }%
10825 }
10826 \@ifundefined{captionsUKenglish}{}{%
10827
      \addto\captionsUKenglish{%
        \renewcommand*{\glossaryname}{Glossary}%
10828
10829
        \renewcommand*{\acronymname}{Acronyms}%
10830
        \renewcommand*{\entryname}{Notation}%
10831
        \renewcommand*{\descriptionname}{Description}%
        \renewcommand*{\symbolname}{Symbol}%
10832
        \renewcommand*{\pagelistname}{Page List}%
10833
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
10834
10835
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10836 }%
10837 }
10838 \@ifundefined{captionsUSenglish}{}{%
10839
      \addto\captionsUSenglish{%
10840
        \renewcommand*{\glossaryname}{Glossary}%
        \renewcommand*{\acronymname}{Acronyms}%
10841
        \renewcommand*{\entryname}{Notation}%
10842
10843
        \renewcommand*{\descriptionname}{Description}%
10844
        \renewcommand*{\symbolname}{Symbol}%
10845
        \renewcommand*{\pagelistname}{Page List}%
10846
        \renewcommand*{\glssymbolsgroupname}{Symbols}%
        \renewcommand*{\glsnumbersgroupname}{Numbers}%
10847
10848 }%
10849 }
  German (quite a few variations were suggested for German; I settled on the
  following):
10850 \@ifundefined{captionsgerman}{}{%
      \addto\captionsgerman{%
10851
10852
        \renewcommand*{\glossaryname}{Glossar}%
        \renewcommand*{\acronymname}{Akronyme}%
10853
10854
        \renewcommand*{\entryname}{Bezeichnung}%
```

```
10855
        \renewcommand*{\descriptionname}{Beschreibung}%
        \renewcommand*{\symbolname}{Symbol}%
10856
10857
        \renewcommand*{\pagelistname}{Seiten}%
        \renewcommand*{\glssymbolsgroupname}{Symbole}%
10858
10859
        \renewcommand*{\glsnumbersgroupname}{Zahlen}}
10860 }
  ngerman is identical to German:
10861 \@ifundefined{captionsngerman}{}{%
      \addto\captionsngerman{%
10862
        \renewcommand*{\glossaryname}{Glossar}%
10863
        \renewcommand*{\acronymname}{Akronyme}%
10864
10865
        \renewcommand*{\entryname}{Bezeichnung}%
        \renewcommand*{\descriptionname}{Beschreibung}%
10866
10867
        \renewcommand*{\symbolname}{Symbol}%
10868
        \renewcommand*{\pagelistname}{Seiten}%
        \renewcommand*{\glssymbolsgroupname}{Symbole}%
10869
        \renewcommand*{\glsnumbersgroupname}{Zahlen}}
10870
10871 }
  Italian:
10872 \@ifundefined{captionsitalian}{}{%
      \addto\captionsitalian{%
        \renewcommand*{\glossaryname}{Glossario}%
10874
10875
        \renewcommand*{\acronymname}{Acronimi}%
10876
        \renewcommand*{\entryname}{Nomenclatura}%
        \renewcommand*{\descriptionname}{Descrizione}%
10877
        \renewcommand*{\symbolname}{Simbolo}%
10878
        \renewcommand*{\pagelistname}{Elenco delle pagine}%
10879
10880
        \renewcommand*{\glssymbolsgroupname}{Simboli}%
10881
        \renewcommand*{\glsnumbersgroupname}{Numeri}}
10882 }
  Dutch:
10883 \@ifundefined{captionsdutch}{}{%
      \addto\captionsdutch{%
10884
10885
        \renewcommand*{\glossaryname}{Woordenlijst}%
10886
        \renewcommand*{\acronymname}{Acroniemen}%
        \renewcommand*{\entryname}{Benaming}%
10887
        \renewcommand*{\descriptionname}{Beschrijving}%
10888
10889
        \renewcommand*{\symbolname}{Symbool}%
10890
        \renewcommand*{\pagelistname}{Pagina's}%
        \renewcommand*{\glssymbolsgroupname}{Symbolen}%
10891
10892
        \renewcommand*{\glsnumbersgroupname}{Cijfers}}
10893 }
  Spanish:
10894 \@ifundefined{captionsspanish}{}{%
      \addto\captionsspanish{%
10895
10896
        \renewcommand*{\glossaryname}{Glosario}%
        \renewcommand*{\acronymname}{Siglas}%
10897
```

```
10898
        \renewcommand*{\entryname}{Entrada}%
        \renewcommand*{\descriptionname}{Descripci\'on}%
10899
10900
        \renewcommand*{\symbolname}{\S\',\i}mbolo}%
        \renewcommand*{\pagelistname}{Lista de p\'aginas}%
10901
10902
        \renewcommand*{\glssymbolsgroupname}{\s\',\i}mbolos}\%
        \renewcommand*{\glsnumbersgroupname}{N\',umeros}}
10903
10904 }
  French:
10905 \@ifundefined{captionsfrench}{}{%
      \addto\captionsfrench{%
        \renewcommand*{\glossaryname}{Glossaire}%
10907
        \renewcommand*{\acronymname}{Acronymes}%
10908
        \renewcommand*{\entryname}{Terme}%
10909
10910
        \renewcommand*{\descriptionname}{Description}%
10911
        \renewcommand*{\symbolname}{Symbole}%
        \renewcommand*{\pagelistname}{Pages}%
10912
10913
        \renewcommand*{\glssymbolsgroupname}{Symboles}%
10914
        \renewcommand*{\glsnumbersgroupname}{Nombres}}
10915 }
10916 \@ifundefined{captionsfrenchb}{}{%
      \addto\captionsfrenchb{%
10917
        \renewcommand*{\glossaryname}{Glossaire}%
10918
10919
        \renewcommand*{\acronymname}{Acronymes}%
        \renewcommand*{\entryname}{Terme}%
10920
10921
        \renewcommand*{\descriptionname}{Description}%
        \renewcommand*{\symbolname}{Symbole}%
10922
        \renewcommand*{\pagelistname}{Pages}%
10923
        \renewcommand*{\glssymbolsgroupname}{Symboles}%
10924
10925
        \renewcommand*{\glsnumbersgroupname}{Nombres}}
10926}
10927 \@ifundefined{captionsfrancais}{}{%
      \addto\captionsfrancais{%
10928
10929
        \renewcommand*{\glossaryname}{Glossaire}%
10930
        \renewcommand*{\acronymname}{Acronymes}%
        \renewcommand*{\entryname}{Terme}%
10931
        \renewcommand*{\descriptionname}{Description}%
10932
10933
        \renewcommand*{\symbolname}{Symbole}%
        \renewcommand*{\pagelistname}{Pages}%
10934
10935
        \renewcommand*{\glssymbolsgroupname}{Symboles}%
        \renewcommand*{\glsnumbersgroupname}{Nombres}}
10936
10937 }
  Danish:
10938 \@ifundefined{captionsdanish}{}{%
      \addto\captionsdanish{%
10939
        \renewcommand*{\glossaryname}{Ordliste}%
10940
10941
        \renewcommand*{\acronymname}{Akronymer}%
        \renewcommand*{\entryname}{Symbolforklaring}%
10942
        \renewcommand*{\descriptionname}{Beskrivelse}%
10943
```

```
10944
        \renewcommand*{\symbolname}{Symbol}%
        \renewcommand*{\pagelistname}{Side}%
10945
10946
        \renewcommand*{\glssymbolsgroupname}{Symboler}%
        \renewcommand*{\glsnumbersgroupname}{Tal}}
10947
10948 }
  Irish:
10949 \@ifundefined{captionsirish}{}{%
10950
      \addto\captionsirish{%
        \renewcommand*{\glossaryname}{Gluais}%
10951
10952
        \renewcommand*{\acronymname}{Acrainmneacha}%
  wasn't sure whether to go for Nóta (Note), Ciall ('Meaning', 'sense') or Brí
  ('Meaning'). In the end I chose Ciall.
10953
        \renewcommand*{\entryname}{Ciall}%
10954
        \renewcommand*{\descriptionname}{Tuairisc}%
  Again, not sure whether to use Comhartha/Comharthaí or Siombail/Siombaile,
  so have chosen the former.
10955
        \renewcommand*{\symbolname}{Comhartha}%
        \renewcommand*{\glssymbolsgroupname}{Comhartha\',{\i}}%
10956
10957
        \renewcommand*{\pagelistname}{Leathanaigh}%
        \renewcommand*{\glsnumbersgroupname}{Uimhreacha}}
10958
10959}
  Hungarian:
10960 \@ifundefined{captionsmagyar}{}{%
10961
      \addto\captionsmagyar{%
        \renewcommand*{\glossaryname}{Sz\',ojegyz\',ek}%
10962
10963
        \renewcommand*{\acronymname}{Bet\H uszavak}%
        \renewcommand*{\entryname}{Kifejez\'es}%
10964
10965
        \renewcommand*{\descriptionname}{Magyar\'azat}%
10966
        \renewcommand*{\symbolname}{Jel\"ol\'es}%
        \renewcommand*{\pagelistname}{Oldalsz\'am}%
10967
10968
        \renewcommand*{\glssymbolsgroupname}{Jelek}%
10969
        \renewcommand*{\glsnumbersgroupname}{Sz\'amjegyek}%
10970
10971 }
10972 \@ifundefined{captionshungarian}{}{%
      \addto\captionshungarian{%
        \renewcommand*{\glossaryname}{Sz\',ojegyz\',ek}%
10974
        \renewcommand*{\acronymname}{Bet\H uszavak}%
10975
10976
        \renewcommand*{\entryname}{Kifejez\'es}%
        \renewcommand*{\descriptionname}{Magyar\'azat}%
10977
        \renewcommand*{\symbolname}{Jel\"ol\'es}%
10978
        \renewcommand*{\pagelistname}{Oldalsz\'am}%
10979
10980
        \renewcommand*{\glssymbolsgroupname}{Jelek}%
        \renewcommand*{\glsnumbersgroupname}{Sz\'amjegyek}%
10981
10982
      }
10983 }
```

```
Polish
```

```
10984 \@ifundefined{captionspolish}{}{%
      \addto\captionspolish{%
10985
10986
        \renewcommand*{\glossaryname}{S{\l}ownik termin\'ow}%
10987
        \renewcommand*{\acronymname}{Skr\',ot}%
        \renewcommand*{\entryname}{Termin}%
10988
        \renewcommand*{\descriptionname}{Opis}%
10989
10990
        \renewcommand*{\symbolname}{Symbol}%
10991
        \renewcommand*{\pagelistname}{Strony}%
10992
        \renewcommand*{\glssymbolsgroupname}{Symbole}%
        \renewcommand*{\glsnumbersgroupname}{Liczby}}
10993
10994 }
  Brazilian
10995 \@ifundefined{captionsbrazil}{}{%
      \addto\captionsbrazil{%
10997
        \renewcommand*{\glossaryname}{Gloss\'ario}%
        \renewcommand*{\acronymname}{Siglas}%
10998
        \renewcommand*{\entryname}{Nota\c c\~ao}%
10999
        \renewcommand*{\descriptionname}{Descri\c c\~ao}%
11000
11001
        \renewcommand*{\symbolname}{S\'imbolo}%
        \renewcommand*{\pagelistname}{Lista de P\'aginas}%
11002
        \renewcommand*{\glssymbolsgroupname}{S\'imbolos}%
11003
11004
        \renewcommand*{\glsnumbersgroupname}{N\'umeros}%
11005
11006 }
  7.2 Polyglossia Captions
11007 \NeedsTeXFormat{LaTeX2e}
11008 \ProvidesPackage{glossaries-polyglossia}[2013/11/14 v4.0 (NLCT)]
  English:
11009 \@ifundefined{captionsenglish}{}{%
11010
      \expandafter\toks@\expandafter{\captionsenglish
        \renewcommand*{\glossaryname}{\textenglish{Glossary}}%
11011
11012
        \renewcommand*{\acronymname}{\textenglish{Acronyms}}%
11013
        \renewcommand*{\entryname}{\textenglish{Notation}}%
11014
        \renewcommand*{\descriptionname}{\textenglish{Description}}%
        \renewcommand*{\symbolname}{\textenglish{Symbol}}%
11015
        \renewcommand*{\pagelistname}{\textenglish{Page List}}%
11016
11017
        \renewcommand*{\glssymbolsgroupname}{\textenglish{Symbols}}%
11018
        \renewcommand*{\glsnumbersgroupname}{\textenglish{Numbers}}%
11019
      \edef\captionsenglish{\the\toks@}%
11020
11021 }
  German:
11022 \@ifundefined{captionsgerman}{}{%
      \expandafter\toks@\expandafter{\captionsgerman
11024
        \renewcommand*{\glossaryname}{\textgerman{Glossar}}%
```

```
11025
        \renewcommand*{\acronymname}{\textgerman{Akronyme}}%
        \renewcommand*{\entryname}{\textgerman{Bezeichnung}}%
11026
11027
        \renewcommand*{\descriptionname}{\textgerman{Beschreibung}}%
        \renewcommand*{\symbolname}{\textgerman{Symbol}}%
11028
11029
        \renewcommand*{\pagelistname}{\textgerman{Seiten}}%
        \renewcommand*{\glssymbolsgroupname}{\textgerman{Symbole}}%
11030
        \verb|\renewcommand*{\glsnumbersgroupname}{\textgerman{Zahlen}}|
11031
11032
      \edef\captionsgerman{\the\toks@}%
11033
11034 }
  Italian:
11035 \@ifundefined{captionsitalian}{}{%
      \expandafter\toks@\expandafter{\captionsitalian
11036
        \renewcommand*{\glossaryname}{\textitalian{Glossario}}%
11037
        \renewcommand*{\acronymname}{\textitalian{Acronimi}}%
11038
        \renewcommand*{\entryname}{\textitalian{Nomenclatura}}%
11039
11040
        \renewcommand*{\descriptionname}{\textitalian{Descrizione}}%
11041
        \renewcommand*{\symbolname}{\textitalian{Simbolo}}%
        \renewcommand*{\pagelistname}{\textitalian{Elenco delle pagine}}%
11042
        \renewcommand*{\glssymbolsgroupname}{\textitalian{Simboli}}%
11043
        \renewcommand*{\glsnumbersgroupname}{\textitalian{Numeri}}%
11044
11045
11046
      \edef\captionsitalian{\the\toks@}%
11047 }
  Dutch:
11048 \@ifundefined{captionsdutch}{}{%
      \expandafter\toks@\expandafter{\captionsdutch
        \renewcommand*{\glossaryname}{\textdutch{Woordenlijst}}%
11050
        \renewcommand*{\acronymname}{\textdutch{Acroniemen}}%
11051
        \renewcommand*{\entryname}{\textdutch{Benaming}}%
11052
11053
        \renewcommand*{\descriptionname}{\textdutch{Beschrijving}}%
11054
        \renewcommand*{\symbolname}{\textdutch{Symbool}}%
        \renewcommand*{\pagelistname}{\textdutch{Pagina's}}%
11055
11056
        \renewcommand*{\glssymbolsgroupname}{\textdutch{Symbolen}}%
        \renewcommand*{\glsnumbersgroupname}{\textdutch{Cijfers}}%
11057
11058
      \edef\captionsdutch{\the\toks@}%
11059
11060 }
  Spanish:
11061 \@ifundefined{captionsspanish}{}{%
      \expandafter\toks@\expandafter{\captionsspanish
11062
11063
        \renewcommand*{\glossaryname}{\textspanish{Glosario}}%
        \renewcommand*{\acronymname}{\textspanish{Siglas}}%
11064
11065
        \renewcommand*{\entryname}{\textspanish{Entrada}}%
11066
        \renewcommand*{\descriptionname}{\textspanish{Descripci\'on}}%
11067
        \renewcommand*{\symbolname}{\textspanish{S\',{\i}mbolo}}%
        \renewcommand*{\pagelistname}{\textspanish{Lista de p\'aginas}}%
11068
        \renewcommand*{\glssymbolsgroupname}{\textspanish{S\','{\i}mbolos}}%
11069
```

```
11070
                \renewcommand*{\glsnumbersgroupname}{\textspanish{N\'umeros}}%
11071
11072
            \edef\captionsspanish{\the\toks@}%
11073 }
    French:
11074 \@ifundefined{captionsfrench}{}{%
            \expandafter\toks@\expandafter{\captionsfrench
                \renewcommand*{\glossaryname}{\textfrench{Glossaire}}%
11076
                \renewcommand*{\acronymname}{\textfrench{Acronymes}}%
11077
11078
                \renewcommand*{\entryname}{\textfrench{Terme}}%
                \renewcommand*{\descriptionname}{\textfrench{Description}}%
11079
                \renewcommand*{\symbolname}{\textfrench{Symbole}}%
11080
                \renewcommand*{\pagelistname}{\textfrench{Pages}}%
11081
                \renewcommand*{\glssymbolsgroupname}{\textfrench{Symboles}}%
11082
11083
                \renewcommand*{\glsnumbersgroupname}{\textfrench{Nombres}}%
11084
            }%
11085
            \edef\captionsfrench{\the\toks@}%
11086}
    Danish:
11087 \@ifundefined{captionsdanish}{}{%
11088
            \expandafter\toks@\expandafter{\captionsdanish
                \renewcommand*{\glossaryname}{\textdanish{Ordliste}}%
11089
11090
                \renewcommand*{\acronymname}{\textdanish{Akronymer}}%
11091
                \renewcommand*{\entryname}{\textdanish{Symbolforklaring}}%
                \verb|\renewcommand*{\descriptionname}{\textdanish{Beskrivelse}}| % if the property of the prope
11092
11093
                \renewcommand*{\symbolname}{\textdanish{Symbol}}%
                \renewcommand*{\pagelistname}{\textdanish{Side}}%
11094
                \renewcommand*{\glssymbolsgroupname}{\textdanish{Symboler}}%
11095
                \renewcommand*{\glsnumbersgroupname}{\textdanish{Tal}}%
11096
11097
11098
            \edef\captionsdanish{\the\toks@}%
11099}
11100 \@ifundefined{captionsirish}{}{%
11101
            \expandafter\toks@\expandafter{\captionsirish
                \renewcommand*{\glossaryname}{\textirish{Gluais}}%
11102
11103
                \renewcommand*{\acronymname}{\textirish{Acrainmneacha}}%
                \renewcommand*{\entryname}{\textirish{Ciall}}%
11104
                \renewcommand*{\descriptionname}{\textirish{Tuairisc}}%
11105
11106
                \renewcommand*{\symbolname}{\textirish{Comhartha}}%
11107
                \renewcommand*{\glssymbolsgroupname}{\textirish{Comhartha\'{\i}}}%
11108
                \renewcommand*{\pagelistname}{\textirish{Leathanaigh}}%
                \renewcommand*{\glsnumbersgroupname}{\textirish{Uimhreacha}}%
11109
11110
11111
            \edef\captionsirish{\the\toks@}%
11112}
    Hungarian:
```

11113 \@ifundefined{captionsmagyar}{}{%

```
11114
      \expandafter\toks@\expandafter{\captionsmagyar
11115
        \renewcommand*{\glossaryname}{\textmagyar{Sz\'ojegyz\'ek}}%
        \renewcommand*{\acronymname}{\textmagyar{Bet\H uszavak}}%
11116
        \renewcommand*{\entryname}{\textmagyar{Kifejez\'es}}%
11117
        \renewcommand*{\descriptionname}{\textmagyar{Magyar\'azat}}%
11118
        \renewcommand*{\symbolname}{\textmagyar{Jel\"ol\'es}}%
11119
        \renewcommand*{\pagelistname}{\textmagyar{Oldalsz\'am}}%
11120
        \renewcommand*{\glssymbolsgroupname}{\textmagyar{Jelek}}%
11121
        \renewcommand*{\glsnumbersgroupname}{\textmagyar{Sz\'amjegyek}}%
11122
      }%
11123
      \edef\captionsmagyar{\the\toks@}%
11124
11125 }
  Polish
11126 \@ifundefined{captionspolish}{}{%
      \expandafter\toks@\expandafter{\captionspolish
        \label{lem:command*} $$\operatorname{\sc saryname}_{\text{command}^{\circ}} $$\operatorname{\sc saryname}_{\text{command}^{\circ}} $$
11128
11129
        \renewcommand*{\acronymname}{\textpolish{Skr\', ot}}%
11130
        \renewcommand*{\entryname}{\textpolish{Termin}}%
11131
        \renewcommand*{\descriptionname}{\textpolish{Opis}}%
11132
        \renewcommand*{\symbolname}{\textpolish{Symbol}}%
        \renewcommand*{\pagelistname}{\textpolish{Strony}}%
11133
11134
        \renewcommand*{\glssymbolsgroupname}{\textpolish{Symbole}}%
11135
        \renewcommand*{\glsnumbersgroupname}{\textpolish{Liczby}}%
11136
      \edef\captionspolish{\the\toks@}%
11137
11138 }
  Portugues
11139 \@ifundefined{captionsportuges}{}{%
      \expandafter\toks@\expandafter{\captionsportuges
        \renewcommand*{\glossaryname}{\textportuges{Gloss\'ario}}%
11141
11142
        \renewcommand*{\acronymname}{\textportuges{Siglas}}%
        \renewcommand*{\entryname}{\textportuges{Nota\c c\~ao}}%
11143
        \renewcommand*{\descriptionname}{\textportuges{Descri\c c\~ao}}%
11144
11145
        \renewcommand*{\symbolname}{\textportuges{S\'imbolo}}%
11146
        \renewcommand*{\pagelistname}{\textportuges{Lista de P\'aginas}}%
11147
        \renewcommand*{\glssymbolsgroupname}{\textportuges{S\'imbolos}}%
11148
        \renewcommand*{\glsnumbersgroupname}{\textportuges{N\',umeros}}%
11149
      \edef\captionsportuges{\the\toks@}%
11150
11151 }
  7.3 Brazilian Dictionary
  This is a dictionary file provided by Thiago de Melo for use with the package.
```

11152 \ProvidesDictionary{glossaries-dictionary}{Brazilian}

#### Provide Brazilian translations:

```
\label{limits} $$11153 \operatorname{Gloss}'(Gloss')^{11154} \operatorname{Conyms}_{Siglas} $$11155 \operatorname{C}^ao} $$
```

```
11156\providetranslation{Description (glossaries)}{Descri\c c\~ao}
11157\providetranslation{Symbol (glossaries)}{S\'imbolo}
11158\providetranslation{Page List (glossaries)}{Lista de P\'aginas}
11159\providetranslation{Symbols (glossaries)}{S\'imbolos}
11160\providetranslation{Numbers (glossaries)}{N\'umeros}
```

## 7.4 Danish Dictionary

This is a dictionary file provided for use with the package.

11161 \ProvidesDictionary{glossaries-dictionary}{Danish}

#### Provide Danish translations:

```
11162 \providetranslation{Glossary}{Ordliste}
11163 \providetranslation{Acronyms}{Akronymer}
11164 \providetranslation{Notation (glossaries)}{Symbolforklaring}
11165 \providetranslation{Description (glossaries)}{Beskrivelse}
11166 \providetranslation{Symbol (glossaries)}{Symbol}
11167 \providetranslation{Page List (glossaries)}{Side}
11168 \providetranslation{Symbols (glossaries)}{Symboler}
11169 \providetranslation{Numbers (glossaries)}{Tal}
```

## 7.5 Dutch Dictionary

This is a dictionary file provided for use with the package.

11170 \ProvidesDictionary \{glossaries-dictionary\} \{Dutch\}

#### Provide Dutch translations:

```
11171 \providetranslation{Glossary}{Woordenlijst}
11172 \providetranslation{Acronyms}{Acroniemen}
11173 \providetranslation{Notation (glossaries)}{Benaming}
11174 \providetranslation{Description (glossaries)}{Beschrijving}
11175 \providetranslation{Symbol (glossaries)}{Symbool}
11176 \providetranslation{Page List (glossaries)}{Pagina's}
11177 \providetranslation{Symbols (glossaries)}{Symbolen}
11178 \providetranslation{Numbers (glossaries)}{Cijfers}
```

#### 7.6 English Dictionary

This is a dictionary file provided for use with the package.

11179 \ProvidesDictionary{glossaries-dictionary}{English}

#### Provide English translations:

```
11180 \providetranslation{Glossary}{Glossary}
11181 \providetranslation{Acronyms}{Acronyms}
11182 \providetranslation{Notation (glossaries)}{Notation}
11183 \providetranslation{Description (glossaries)}{Description}
11184 \providetranslation{Symbol (glossaries)}{Symbol}
11185 \providetranslation{Page List (glossaries)}{Page List}
11186 \providetranslation{Symbols (glossaries)}{Symbols}
11187 \providetranslation{Numbers (glossaries)}{Numbers}
```

## 7.7 French Dictionary

This is a dictionary file provided for use with the package.

11188 \ProvidesDictionary \{ glossaries-dictionary \} \{ French \}

#### Provide French translations:

```
11189 \providetranslation{Glossary}{Glossaire}
11190 \providetranslation{Acronyms}{Acronymes}
11191 \providetranslation{Notation (glossaries)}{Terme}
11192 \providetranslation{Description (glossaries)}{Description}
11193 \providetranslation{Symbol (glossaries)}{Symbole}
11194 \providetranslation{Page List (glossaries)}{Pages}
11195 \providetranslation{Symbols (glossaries)}{Symboles}
11196 \providetranslation{Numbers (glossaries)}{Nombres}
```

## 7.8 German Dictionary

This is a dictionary file provided for use with the package.

11197 \ProvidesDictionary \{ glossaries-dictionary \} \{ German \}

Provide German translations (quite a few variations were suggested for German; I settled on the following):

```
11198 \providetranslation{Glossary}{Glossar}
11199 \providetranslation{Acronyms}{Akronyme}
11200 \providetranslation{Notation (glossaries)}{Bezeichnung}
11201 \providetranslation{Description (glossaries)}{Beschreibung}
11202 \providetranslation{Symbol (glossaries)}{Symbol}
11203 \providetranslation{Page List (glossaries)}{Seiten}
11204 \providetranslation{Symbols (glossaries)}{Symbole}
11205 \providetranslation{Numbers (glossaries)}{Zahlen}
```

#### 7.9 Irish Dictionary

This is a dictionary file provided for use with the package. 11206 \ProvidesDictionary {glossaries-dictionary} {Irish}

#### Provide Irish translations:

```
11207 \providetranslation{Glossary}{Gluais}
11208 \providetranslation{Acronyms}{Acrainmneacha}
11209 \providetranslation{Notation (glossaries)}{Ciall}
11210 \providetranslation{Description (glossaries)}{Tuairisc}
11211 \providetranslation{Symbol (glossaries)}{Comhartha}
11212 \providetranslation{Page List (glossaries)}{Leathanaigh}
11213 \providetranslation{Symbols (glossaries)}{Comhartha\'{\i}}
11214 \providetranslation{Numbers (glossaries)}{Uimhreacha}
```

#### 7.10 Italian Dictionary

This is a dictionary file provided for use with the package.

11215 \ProvidesDictionary \{glossaries-dictionary\} \{Italian\}

#### Provide Italian translations:

```
11216 \providetranslation{Glossary}{Glossario}
11217 \providetranslation{Acronyms}{Acronimi}
11218 \providetranslation{Notation (glossaries)}{Nomenclatura}
11219 \providetranslation{Description (glossaries)}{Descrizione}
11220 \providetranslation{Symbol (glossaries)}{Simbolo}
11221 \providetranslation{Page List (glossaries)}{Elenco delle pagine}
11222 \providetranslation{Symbols (glossaries)}{Simboli}
11223 \providetranslation{Numbers (glossaries)}{Numeri}
```

## 7.11 Magyar Dictionary

This is a dictionary file provided for use with the package.

11224 \ProvidesDictionary {glossaries-dictionary} {Magyar}

#### Provide translations:

```
11225 \providetranslation{Glossary}{Sz\'ojegyz\'ek}
11226 \providetranslation{Acronyms}{Bet\H uszavak}
11227 \providetranslation{Notation (glossaries)}{Kifejez\'es}
11228 \providetranslation{Description (glossaries)}{Magyar\'azat}
11229 \providetranslation{Symbol (glossaries)}{Jel\"ol\'es}
11230 \providetranslation{Page List (glossaries)}{Oldalsz\'am}
11231 \providetranslation{Symbols (glossaries)}{Jelek}
11232 \providetranslation{Numbers (glossaries)}{Sz\'amjegyek}
```

## 7.12 Polish Dictionary

This is a dictionary file provided for use with the package. 11233 \ProvidesDictionary{glossaries-dictionary}{Polish}

#### Provide Polish translations:

```
11234 \providetranslation{Glossary}{S{\l}ownik termin\'ow} 

11235 \providetranslation{Acronyms}{Skr\'ot} 

11236 \providetranslation{Notation (glossaries)}{Termin} 

11237 \providetranslation{Description (glossaries)}{Opis} 

11238 \providetranslation{Symbol (glossaries)}{Symbol} 

11239 \providetranslation{Page List (glossaries)}{Strony} 

11240 \providetranslation{Symbols (glossaries)}{Symbole} 

11241 \providetranslation{Numbers (glossaries)}{Liczby}
```

#### 7.13 Serbian Dictionary

This dictionary was provided by Zoran Filipovic.

```
11242 \ProvidesDictionary{glossaries-dictionary}{Serbian}
11243 \providetranslation{Glossary}{Mali re\v cnik}
11244 \providetranslation{Acronyms}{Skra\' cenice}
11245 \providetranslation{Notation (glossaries)}{Oznaka}
11246 \providetranslation{Description (glossaries)}{Opis}
11247 \providetranslation{Symbol (glossaries)}{Simbol}
```

```
11248\providetranslation{Page List (glossaries)}{Stranica}
11249\providetranslation{Symbols (glossaries)}{Simboli}
11250\providetranslation{Numbers (glossaries)}{Brojevi}
```

## 7.14 Spanish Dictionary

This is a dictionary file provided for use with the package.

11251 \ProvidesDictionary{glossaries-dictionary}{Spanish}

#### Provide Spanish translations:

```
11252 \providetranslation{Glossary}{Glosario}
11253 \providetranslation{Acronyms}{Siglas}
11254 \providetranslation{Notation (glossaries)}{Entrada}
11255 \providetranslation{Description (glossaries)}{Descripci\'on}
11256 \providetranslation{Symbol (glossaries)}{S\'{\i}mbolo}
11257 \providetranslation{Page List (glossaries)}{Lista de p\'aginas}
11258 \providetranslation{Symbols (glossaries)}{S\'{\i}mbolos}
11259 \providetranslation{Numbers (glossaries)}{N\'umeros}
```

## **Glossary**

makeindex An indexing application. 10, 23

xindy An flexible indexing application with multilingual support written in Perl. 10, 23

# **Change History**

1.01	Changed the default value of
General: Added range facility in	the sort key to just the value of
format key 92	the name key 69
\writeist: Added spaces after	\glsmakefirstuc:new 245
\delimN and \delimR in ist	1.06
file	General: now requires etoolbox . 244
1.03	\capitalisewords: new 245
\makefirstuc: changed 'pro-	\xcapitalisewords: new 246
tected@edef to 'def 244	1.07
1.04	\@gls@link: fixed bug caused by
General: Added \glstextformat 78	\theglsentrycounter set-
1.05	ting the page number too soon 90
\glossarysection: added	\glsadd: fixed bug caused by
$\ensuremath{\verb{Qmkboth}}$ to $\ensuremath{\verb{glossarysection}}$	\theglsentrycounter set-
	ting the page number too soon
\gls@defglossaryentry:	146

1.08	descriptionplural:new 56
General: Added babel support 30	\gls@defglossaryentry:
\capitalisewords: made robust	Changed default first plural to
245	be first key with s appended
listgroup: changed listgroup	(was text key with s appended) 69
style to use \glsgetgrouptitle	descriptionplural support
251	added 68
altlistgroup: changed al-	symbolplural support added 69
tlistgroup style to use	\Glsentrydescplural: New 139
\glsgetgrouptitle 252	\glsentrydescplural: New 139
\makefirstuc: made robust 244	\Glsentrysymbolplural: New 140
1.1	\glsentrysymbolplural:New 140
\@glossarysection: numbered	\SetDescriptionFootnoteAcronymStyle:
sections and auto label added 36	Added \protect before
\@gls@tmpb: changed \toksdef	\footnote and \glslink . 217
to \newtoks 95	\SetFootnoteAcronymStyle:
\@gls@toc: numberline added 38	Added \protect before
\@p@glossarysection: num-	\footnote and \glslink . 224
bered sections and auto label	symbolplural: new 57
	.13
General: Added support for trans-	General: Add Polish support 352, 355
lator package 30	fixed bug that ignored 3rd pa-
amsgen now loaded (\new@ifnextchar	
needed) 4	\ACRfullpl:new 199
translate: translate option	\Acrfullpl:new 199
added 21	\acrfullpl: new 198
\setglossarysection: new 36	\acrpluralsuffix: New 196
numberedsection: numbered-	\gls@defglossaryentry:
section package option added . 6	Changed default first value 69
numberline: numberline option	Changed default firstplural
added 5	value 69
1.12	Removed restriction on only
\@GLSpl: now uses \glsentrydescplura	
and \glsentrysymbolplural	the preamble 73
instead of \glsentrydesc	\newacronym: Removed re-
and \glsentrysymbol 109	striction on only using
\@Glspl@: now uses \glsentrydescplum	
	.14
instead of \glsentrydesc	\@gls@hypergroup: new 247
and \glsentrysymbol 108	General: added nonumberlist key
\@glspl@: now uses \glsentrydescplum	· · · · · · · · · · · · · · · · · · ·
and \glsentrysymbolplural	added numberedsection key to
instead of \glsentrydesc	\printglossary 182
and \glsentrysymbol 106	\firstacronymfont: new 200
General: added check for	\glsautoprefix: new 6
\hypertarget separate to	\glsnavhyperlink: changed
\hyperlink (memoir de-	'edef to 'protected@edef 246
fines \hyperlink but not	\glsnavhypertarget: added
\hypertarget) 100	write to aux file 247

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tion 72	\@index 161
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bol 72	\@glsdefaultsort:new 60
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\glsnavhypertarget: added	\@glsnoname: new 59
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\printglossary: changed the	for xindy support 162
way the TOC title is set 168	General: added Brazilian dictio-
1.16	nary
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\acronymtype in addition to	added xindy support 23
checking if footnote option has	parent: new 58
been used 105	see: new 58
\@GLSpl: Test glossary type is	\gls@defglossaryentry: added
\acronymtype in addition to	nonumberlist key 69
checking if footnote option has	added parent key 69
been used 109	added see key 69
\@Gls@: Test glossary type is	Stored main part of entry format
\acronymtype in addition to	when entry is defined 73
checking if footnote option has	\gls@suffixF:new 33
been used 104	\gls@suffixFF:new 33
\@Glspl@: Test glossary type is	\glshyperlink: new 145
\acronymtype in addition to	\glshypernumber: modified to
checking if footnote option has	allow material to be attached
been used 108	to location 193
\@gls@: Test glossary type is	\glsnavhyperlink: replaced 'hy-
\acronymtype in addition to	perlink to '@glslink 246
checking if footnote option has	\glsnavhypertarget: replaced
been used 102	'hypertarget to '@glstarget . 247
\@glsdisp: Test glossary type is	\glssee: new 166
\acronymtype in addition to	\glsseeformat:new 166
checking if footnote option has	\glsSetSuffixF:new 33
been used 110	\glsSetSuffixFF: new 34
\@glspl@: Test glossary type is	\ifglsxindy: new 23
\acronymtype in addition to	\istfilename: added xindy sup-
checking if footnote option has	port 32
been used 106	\newglossarystyle: made
\@glstarget: raised the hyper-	$\newglossarystyle\ long\ .\ 192$
target so the target text doesn't	\nopostdesc: new 31

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\printglossary: added check to	\@gls@link:moved\@do@wrglossary
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order: order package option	\ifthenelse with \ifx 47
added 23	\forglsentries: replaced
\writeist: added xindy support 148	\ifthenelse with \ifx 47
1.18	
	\glsdefmain: new 12
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\@gls@loadtree:new 8	\linewidth to \hsize 253
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\smaller 222	\@GI Snl: Added check for hyper-
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use \textsmaller instead of	\@Gls@: Added check for hyper-
\smaller 217	first
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changed \acronymfont to	first 108
use \textsmaller instead of	\@gls@: Added check for hyper-
\smaller 224	first 102
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use \textsmaller instead of	90
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General: fixed bug in ngerman	\@glsdisp: Added check for hy-
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\@GLS@: Changed test to check if	determine if $\gls@\langle type\rangle$ @display
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fied as a list of acronyms 105	have been defined 54
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fied as a list of acronyms 102	$\verb \SetSmallAcronymDisplayStyle: \\$
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if glossary type has been iden-	\@glsdisp: Added closing brace.
tified as a list of acronyms 110	Patch provided by Sergiu
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tified as a list of acronyms 106	provided by Sergiu Dotenco 111
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\ifcsundef 5	\acrnolinkfootnote: new 215
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91	seeautonumberlist:new 7
added \@gls@setsort 91	\glossarysection: replaced
\@gls@saveentrycounter: new 91	\@ifundefined with
\@gls@setupsort@def:new 11	\ifcsundef 35
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\ACRfullpl: added starred ver-	\@ifundefined with
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