The GOST package

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Abstract

GOST is a bundle of BibTeX styles designed to meet State Standards (GOST) on information, librarianship and publishing issued by The Russian Federation and Interstate Committee of former USSR States.

It comprises 16 BibTeX styles to format bibliography in English, Russian and Ukrainian according to GOST 7.0.5-2008 and GOST 7.1-2003. Both 8-bit and Unicode (UTF-8) versions of each BibTeX style, in each case offering a choice of sorted and unsorted. Further, 2 more styles, gost780 and gost780s styles (not conforming to effective standards) are retained for backwards compatibility.

1 Introduction

The package was initially developed by Maksym Polyakov. It was later updated by Igor Kotelnikov to the present status and some code was borrowed from disser package developed by Stanislav Kruchinin and unpublished work by Artem Petrenkov.

Nowdays, GOST is a bundle of BibTeX styles designed to meet State Standards (GOST) on information, librarianship and publishing issued by Russian Federation and interstate committee of former USSR States.

The System of Standards includes:

GOST 7.0.5-2008 Bibliographic reference. General requirements and rules of making.

GOST 7.1 -2003 Bibliographic record. Bibliographic description. General requirements and rules.

GOST 7.80 -2000 Bibliographic record. Heading. General requirements and rules.

GOST 7.11 -2004 Bibliographic description and references. Rules for the abbreviation of words and word combinations in foreign European languages.

GOST 7.83 -2001 Electronic editions. Basic types and imprint.

ect.

Currently, GOST contains 16 BibTeX styles to format bibliography in English, Russian and Ukrainian according to GOST 7.0.5-2008 and GOST 7.1-2003. Both 8-bit and Unicode (UTF-8)

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versions of each BibTeX style, in each case offering a choice of sorted and unsorted. Further, 2 styles, gost780 and gost780s styles (which do not conform to effective standards) are retained for backwards compatibility.

All styles in the GOST bundle are derived from single master file gost.dtx by applying different set of options as shown in the table below.

Style	utf8 strict modern eprint lon	g sort natbib
gost780	 	
gost780s	i i i i i	+
gost2003	 	 I I
gost2003		
gost2003s gost2008	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
	1 1 1 + 1 + 1	1 1
gost2008n		1 1 7
gost20081	+ + +	
gost2008s	+ +	+
gost2008ns	+ +	+ +
gost20081s		+
ugost2003	+ + +	
ugost2003s	+ + +	+
ugost2008	+ + +	1 1
ugost2008n	+ + +	+
ugost20081	+ + + +	1 1
ugost2008s	+ + +	+
ugost2008ns		+ +
ugost20081s	i + i	+
Style	utf8 strict modern eprint lon	g sort natbib

Gost2008 style is recommended for most applications. It corresponds to the currently effective Standard 7.0.5-2008. Librarians should use the style gost2003 instead of gost2008 to compile a library catalog to meet the Standard 7.1-2003. Use of other styles is best explained through the meaning of options used to compile those styles from the master source.

Two styles, gost780 and gost780s, compiled without modern and strict options, are retained for backward compatibility. They do not conform the Standards 7.0.5-2008 and 7.1-2003 cited above.

The strict option provides conformance to the Standard 7.1-2003. The styles compiled with that option bear the name gost2003 with possible suffixes s, 1, n as explained below. These styles are intended primarily for the librarians who compose a library catalog.

The modern option meets the Standard 7.0.5-2008 which can be thought off as a relaxed version of the Standards 7.1-2003. The styles compiled with that option bear the name gost2008 with possible suffixes s, 1, n. The strict option has precedence over modern so that a style compiled with both options will resemble mainly the gost2003 style rather than gost2008.

If the number of authors exceeds 4, modern styles cut the list of authors to at most 4 persons as prescibed by the Standards. Option long overrides this rule to provide backward compatibility with the package disser by Stanislab Kruchinin. Two styles, gost20081 and gost20081s, compiled with the option long mimic behavior of the styles gost705 and gost705s from the disser package. Major effect of the long option is that the list of authors always precedes book or article title no matter how long is it. Modern styles compiled without long place long list of authors behind the title. The names of styles compiled with the option long has the suffix 1. Recall that those styles do not conform effective Standards and their use is discouraged.

The eprint option enables formatting electronic publications. In particular, it enables eprint, eprinttype, eprintclass, and doi fields for a bibliographic entry. The styles generated without the eprint option, ignore the these fields. Starting from the version 1.2 of the GOST package, all modern styles are compiled with this option included, and the suffix e which designated this option in earlier versions is not appended to the name of style any more.

The natbib option provides compatibility with the natbib package. The names of styles compiled with the option natbib bear the suffix n. Currently 4 styles with that option are available for beta testing.

The sort option enables sorting bibliographic references by author names and references titles. The names of styles compiled with the option sort bear the suffix s.

Finally, the utf8 option produces bibliographic styles in unicode rather that in 8-bit encoding. Names of those styles bear the prefix u.

Beyond bibliographic style, GOST bundle contains CS files (codepage and sorting order).

Encoding	 	CSF	Sorting order
cp866 cp1251 koi8-u utf8		ruscii.csf cp1251.csf koi8u.csf utf8cyrillic.csf	Cyrillic first, Latin Cyrillic first, Latin Cyrillic first, Latin Cyrillic first, Latin

In addition, BibTeX8 distribution comes with few more CSFs.

Encoding	 	CSF	Sorting order
cp866	ı	cp866rus.csf	Latin first, Cyrillic

1.1 How to use

1. Select bibliography style by adding appropriate \bibliographystyle declaration to your source file <filename>.tex, e.g.

\bibliographystyle{gost2008}
\bibliography{database}

- 2. Add the field language="ukrainian" or language="russian" to the bibliographic entries in Ukrainian or Russian languages in your database; English is the default language. German, Italian and French are partially supported.
- 3. To compile list of references from your database use bibtex8.exe rather than bibtex.exe. Depending on the codepage of your bibliographic database, indicate one of the CS files listed above as option to bibtex8.exe. Run LaTeX, then run bibTeX8 and LaTeX again:

```
latex <filename>.tex
bibtex8 -B -c <csf_file>.csf <filename>.aux
latex <filename>.tex
```

- 4. For details on preparing bibliographic database see examples in gost*.pdf.
- 5. ugost* styles are primarily intended for use with unicode compilers (xelatex and lualatex). They should be preferred as well when using 8bit compilers (latex and pdflatex) if source file is in utf8 encoding.
- Neither bibtex.exe nor bibtex8.exe provides correct sorting order of unicode text. It means
 that using ugost2008s or ugost2008ns may produce unexpected result for documents in utf8
 encoding.
- 7. Bibtex8 fails to change case of a string if it contains Cyrillic letter in unicode. Therefore ugost2008* styles do not change case of titles and other parts of bibliographic record while 8-bit styles do the case change where appropriate.
- 8. Either bibtex8 or Bibtex8 fail to cut Cyrillic names to initials. Therefore ugost2008* styles do not modify name of authors.
- 9. Package natbib is required when choosing styles with suffix n in their names.

1.2 Customization

Every GOST style defines few commands to format some parts of a reference. You can redefine these commands prior to the \bibliography{<biblex_style>} command. Initial definitions are listed below.

```
\providecommand*{\url}[1]{{\small #1}}
\providecommand*{\BibUrl}[1]{\url{#1}}
\providecommand{\BibAnnote}[1]{}
\providecommand*{\BibEmph}[1]{#1}
```

By default, gost styles separate logical parts of a bibliography record by a period and cyrdash (. "---). It is legitimate to drop that dash by overriding the command \BibDash as follows

```
\providecommand*{\BibDash}{}
```

By default, \BibDash is equivalent to the shorthand "--- defined by the babel package with the option russian. It prints a so called Cyrillic dash (\cyrdash), which is 20% shorter then ordinary LaTeX dash (---), and puts unbreakable space before \cyrdash so that dash never appears in the beginning of a line.

1.3 Where to get

- 1. CTAN:biblio/bibtex/contrib/gost.
- 2. CTAN:pkg/gost.

1.4 Version history

Version 1.2i (2017.01.12)

- 1. Documentation and examples update (thanks to Leonid Sinev).
- 2. Restored @MastersThesis instead of @MasterThesis (thanks to Leonid Sinev).
- 3. media="eresource" is introduced in addition to media="online" and media="text"; if present, the media field is not ignored any more in modern bst-styles compiled without the strict option.
- 4. location field is introduced as an alias of address field.
- 5. QDSCISTHESIS entry renamed to QDOCTHESIS.
- school field in @THESIS and similar entries is replaced by institution to comply with biblatex-gost style.

Version 1.2h (2016.08.21)

1. Minor changes in documentation.

Version 1.2g (2016.07.25)

1. Minor changes in documentation.

Version 1.2f (2016.07.12)

- 1. Support for patent entry added (thanks to Stanislav Kruchinin).
- 2. medium field renamed to media field for compatibility with biblatex.

Version 1.2e (2016.07.07)

1. Hard coded "URL" string replaced with a language sensitive string (thanks to Roman Budnyi).

Version 1.2d (2015.02.18)

- 1. jan, feb, etc. macros fixed.
- 2. New macro format.month.

Version 1.2c (2015.01.10)

- 1. langid field is added. It has same meaning as language which is now obsolete but is still supported for backward compatibility; langid has priority over language.
- 2. eid field is added. It has priority over pages.
- 3. The ligature "--- has been substituted with \BibDash for .bst styles compiled without modern options (gost2003.bst and gost2003s.bst). For modern styles this was done in earlier versions.
- 4. Spacing around \BibDash has been improved.
- 5. \BibDash now typesets short em-dash (\cyrdash) only for russian and ukrainian languages. In earlier versions, it produces short em-dash for all languages.
 - (This feature was removed since it did not work with all engines.)

Version 1.2a (2012.08.31)

1. \cyrdash is now defined via \ProvideTextCommand rather than \providecommand.

Version 1.2 (2012.02.22)

- 1. Code refactoring. All styles are now generated from single source file.
- 2. Support for GOST 7.1-2003. The field medium is added to reflect type of material. For most entry types medium defaults to text.
- 3. Support for natbib package.
- 4. All modern styles are now compiled with the eprint option.

Version 1.1 (2012.01.21)

- 1. Support for GOST 7.0.5-2008 and GOST 7.1-2003 is provided.
- 2. **QOnline** entry is added to format a reference to electronic resource on Internet.
- 3. @MastersThesis entry is added to format a reference to master's thesis.
- 4. @DSciThesis entry is added to format a reference to doctor of sciences thesis.
- 5. Urldate, eprint, eprintclass, eprinttype fields are added.

1.4.1 Older versions

2012.02.22 Support for natbib package.

2012.02.02 Adaptation to GOST 7.0.5, electronic publishing.

2005.08.12 First version uploaded to CTAN.

2003.06.06 First public version.

2 Implementation

We need Russian fonts to produce documentation of the code below. Therefore we switch current language to Russian by issuing the command \selectlanguage{russian}.

```
1 (*bst)
2 %%
3 %% This bibstyle attempts to format bibliography according to
 4 (!modern) %% GOST 7.1-2003 for bibliographic records.
5 (modern) %% GOST 7.0.5-2008 for bibliographic reference.
6 (*natbib) %%
7 %%-----
8 %% This is an author-year citation style bibliography.
9 %% It requires a special package file to function properly
10 %% such as natbib.sty by Patrick W. Daly.
11 %% The form of the \bibitem entries is
       \bibitem[Jones et al.(1990)]{key}...
12 %%
13 %%
       \bibitem[Jones et al.(1990)Jones, Baker, and Smith]{key}...
14 %% where the label part (in brackets) consists of the author names,
15 %% as they should appear in the citation, with the year in parentheses following.
16 %% There must be no space before the opening parenthesis!
17 %% A full list of authors may also follow the year.
18 %% In natbib.sty, it is possible to define the type of enclosures that is
19 %% really wanted (brackets or parentheses), but in either case, there must
20 %% be parentheses in the label.
21 %% The \cite command functions as follows:
22 %%
      \citet{key}
                              => Jones et al. (1990)
23 %%
      \citet*{key}
                               => Jones, Baker, and Smith (1990)
      \cite{key}
                              => (Jones et al., 1990)
24 %%
25 %%
      \cite*{key}
                             => (Jones, Baker, and Smith, 1990)
      \cite[chap. 2]{key} => (Jones et al., 1990, chap. 2)
26 %%
                             => (e.g. Jones et al., 1990)
27 %%
      \cite[e.g.][]{key}
      \cite[e.g.][p. 32]{key} => (e.g. Jones et al., p. 32)
28 %%
29 %%
       \citeauthor{key}
                               => Jones et al.
30 %%
       \citeauthor*{key}
                               => Jones, Baker, and Smith
31 %%
      \citeyear{key}
                                => 1990
32 %%----
33 (/natbib)
```

2.1 Fields

Enlist all entry types allowed in a bibliographic database. Most entries are common for many standard bst styles.

```
35 ENTRY
   { address
36
37
      annote
38
      author
39
      booktitle
40
      bookauthor
      chapter
41
42
      edition
      editor
43
44
      compiler
      howpublished
45
      institution
46
      journal
47
      key
48
                       % new in v.1.2i, alias for speciality, not implemented
      %major
49
                       % new in v.1.2i, alias for specialitycode
      majorcode
50
      month
51
52
      note
53
      number
54
      organization
55
      pages
                       % new in v1.2c
56
      eid
57
      publisher
                       % alias for institution
      school
58
      series
59
      %speciality
                       % new in v.1.2i, eqv. to major in biblatex-gost, not implemented yet...
60
                       % new in v.1.2i, alias of number, eqv. to majorcode in biblatex-gost
      specialitycode
61
      title
62
      %medium
                       % new in v1.2; renamed to media.
63
      media
                       % new in v1.2f
64
65
      type
      volume
66
67
      year
68
      language
      langid
                       % new in v1.2c
69
70
      booklanguage
Entries borrowed from biblatex.
                        % not implemented yet...
71
      %date
72
      pagetotal
73
      url
74
      urldate
75
      isbn
76
      doi
                       % = archivePrefix
77
      eprinttype
78
      eprintclass
                       % = primaryClass
      eprint
79
```

```
81
                          % appear in biblatex:
                          %addendum
                                          % not implemented yet...
                   82
                          holder
                                          % see patent
                   83
                          location
                                          % new in v.1.2i, alias of address
                   84
                                          % not implemented yet...
                   85
                          %subtitle
                                          % new in v.1.2i, see @thesis
                   86
                          titleaddon
                          %version
                                          % not implemented yet...
                   88
                          % Appear in biblatex-gost for @patent entry:
                   89
                          authorcountry
                                         % country of the patent authors
                          credits
                                          % statement of responsibility, other than provided in Biblatex
                   90
                                          \% Code of the International Patent Classification
                   91
                          ipc
                          %media
                                          \% General material designation NOTE: medium in the above
                   92
                   93
                          requestnumber
                                          % Registration number of the application to the patent document
                          publicationdate % Date of publication
                                          % and information on the official gazette, which published patent
                   95
                          publication
                          prioritydate
                                          % Information about the convention priority: the date of filing of the application,
                   96
                          prioritynumber %
                                              number and
                   97
                                             country name of convention priority.
                          prioritycountry %
                   98
                          requestdate
                                          % ??
                   99
                   100
                        }
                        {}
                   102 (!natbib) { label }
                   103 (natbib) { label extra.label sort.label short.list }
                   104
                   Declare internal variables and constants used in to format references.
                   105 INTEGERS { output.state before.all mid.sentence after.sentence after.block
                   106 after.dblslash after.slash after.colon after.semicolon }
                   107
init.state.consts
                   108 FUNCTION {init.state.consts}
                   109 { #0 'before.all :=
                   110 #1 'mid.sentence :=
                   111 #2 'after.sentence :=
                   112 #3 'after.block :=
                  113 #4 'after.dblslash :=
                   114 #5 'after.slash :=
                       #6 'after.colon :=
                  115
                       #7 'after.semicolon :=
                  117 }
                  118
                  119 STRINGS { s t }
                  120
                   121 STRINGS { curlanguage }
                   122
```

2.2 Formatting functions

% new in v1.2f:

80

change.language Declare function to switch language.

```
123 FUNCTION {change.language}
124 { booklanguage empty$
       { "" }
125
       { booklanguage 'curlanguage :=
126
          "\selectlanguageifdefined{"
127
128
         curlanguage *
          "}" *
129
130
       }
131
     if$
132 }
133
```

output.nonnull

Declare functions to output various parts of bibliographic record. Function output.nonnull writes to output buffer the last literal in the stack assuming that it is not empty and adds an appropriate punctuation symbol.

```
134 FUNCTION {output.nonnull}
135 {
136
     swap$
137
     output.state mid.sentence =
       { ", " * write$ }
138
       { output.state after.block =
139
            { add.period$ write$
140
              " \BibDash " write$
141
              newline$
142
              "\newblock " write$
143
144
            { output.state before.all =
145
                'write$
146
                { output.state after.dblslash =
147
                     { "~//" * change.language * " " * write$ }
148
                     { output.state after.slash =
149
                         { "~/ " * write$ }
150
                         { output.state after.colon =
151
152 (!(strict | modern))
                                               { ": " * write$ }
                                            { "~: " * write$ }
153 (strict | modern)
154
                              { output.state after.semicolon =
155 (!(strict | modern))
                                                   { "; " * write$ }
                                                 { "~; " * write$ }
156 (strict | modern)
                             { add.period$ " " * write$ }
157
                            if$
158
                             }
159
160
                           if$
161
                         }
162
                       if$
                     }
163
                  if$
164
                }
165
              if$
166
            }
167
168
          if$
          mid.sentence 'output.state :=
169
```

```
}
              170
              171
                    if$
              172 }
              173
                    Function output calls output.nonnul is the last literal string in the stack if it is not empty;
      output
               otherwise it discards the literal. Function output.check do the same but also warns if the indicated
              field is empty.
output.check
              174 FUNCTION {output}
              175 { duplicate$ empty$
                      'pop$
              176
                      'output.nonnull
              177
              178
                    if$
              179 }
              180
              181 FUNCTION {output.check}
              182 { 't :=
              183 duplicate$ empty$
                      { pop$ "empty " t * " in " * cite$ * warning$ }
                      'output.nonnull
                   if$
              186
              187 }
              188
   fin.entry
                   fin.entry finalizes current entry. It writes dot, if no dot is found in stack, and starts new line.
              189 FUNCTION {fin.entry}
              190 { add.period$
              191 write$
              192 newline$
              193 }
              194
                    Declare family of functions to put punctuation marks depending of current status of output
   new.block
               stack. The just check output state and revert it another state if required. Checking output state
               prevents occasional doubling of punctuation marks.
              195 FUNCTION {new.block}
              196 { output.state before.all =
                      'skip$
              197
                      { after.block 'output.state := }
              198
                    if$
              199
              200 }
new.dblslash
              202 FUNCTION {new.dblslash}
              203 { output.state before.all =
                      'skip$
              204
                      { after.dblslash 'output.state := }
              205
              206
                   if$
              207 }
```

208

```
new.slash
                209 FUNCTION {new.slash}
                210 { output.state before.all =
                       'skip$
                212
                        { after.slash 'output.state := }
                213 if$
                214 }
                215
    new.colon
                216 FUNCTION {new.colon}
                217 { output.state before.all =
                        'skip$
                218
                        { after.colon 'output.state := }
                219
                220 if$
                221 }
                222
new.semicolon
                223 FUNCTION {new.semicolon}
                224 { output.state before.all =
                        'skip$
                225
                226
                        { after.semicolon 'output.state := }
                227 if$
                228 }
                229
 new.sentence
                230 \; \texttt{FUNCTION} \; \; \{\texttt{new.sentence}\}
                231 { output.state after.block =
                232
                        'skip$
                233
                        { output.state before.all =
                234
                            'skip$
                235
                            { after.sentence 'output.state := }
                          if$
                236
                237
                        }
                238
                     if$
                239 }
                240
    add.blank
                241 FUNCTION {add.blank}
                242 \; \{ \; \text{" " * before.all 'output.state := } \;
                243 }
                     Declare few logical functions.
           not
                245 FUNCTION {not}
                246 { #0 }
                247
                        { #1 }
                248 if$
                249 }
                250
```

```
and
                  251 FUNCTION {and}
                  252 {
                         'skip$
                         { pop$ #0 }
                  253
                       if$
                  254
                  255 }
                  256
              or
                  257 FUNCTION {or}
                  258 { pop$ #1 }
                  259
                         'skip$
                  260
                       if$
                  261 }
                  262
                   The function chop.word in substr len str chop.word removes given substring substr of length
       chop.word
                   len from the beginning of the string str.
                  263 (*sort | natbib)
                  264 INTEGERS { len }
                  265
                  266 FUNCTION {chop.word}
                  267 { 's :=
                  268 'len :=
                  269 s #1 len substring$ =
                  270
                         { s len #1 + global.max$ substring$ }
                  271
                          's
                  272 if$
                  273 }
                  274 (/sort | natbib)
                  275
        non.stop
                  276 FUNCTION {non.stop}
                  277 { duplicate$
                        "}" * add.period$
                  278
                         #-1 #1 substring$ "." =
                  279
                  280 }
                  281
new.block.checka
                  282 FUNCTION {new.block.checka}
                  283 { empty$
                  284
                          'skip$
                          'new.block
                  286 if$
                  287 }
                  288
new.block.checkb
                  289 FUNCTION {new.block.checkb}
                  290 { empty$
```

```
swap$ empty$
                   291
                   292
                         and
                   293
                           'skip$
                           'new.block
                   294
                   295
                         if$
                   296 }
                   297
w.sentence.checka
                   298 FUNCTION {new.sentence.checka}
                   299 { empty$
                           'skip$
                   301
                           'new.sentence
                   302
                        if$
                   303 }
                   304
w.sentence.checkb
                   305 FUNCTION {new.sentence.checkb}
                   306 { empty$
                   307
                         swap$ empty$
                   308
                         and
                           'skip$
                   309
                   310
                           , {\tt new.sentence}
                   311
                         if$
                   312 }
                   313
w.dblslash.checka
                    For online entry.
                   314 FUNCTION {new.dblslash.checka}
                   315 { empty$
                           'skip$
                   317
                           'new.dblslash
                   318
                        if$
                   319 }
                   320
   field.or.null
                   321 FUNCTION {field.or.null}
                   322 { duplicate$ empty$
                           { pop$ "" }
                   323
                   324
                           'skip$
                   325
                         if$
                   326 }
                   327
                         Declare function to emphasize last string in stack.
        emphasize
                   328 FUNCTION {emphasize}
                   329 { duplicate$ empty$
                           { pop$ "" }
                   330
                           { "\BibEmph{" swap$ * "}" * }
                   331
                   332
                         if$
```

```
333 }
                   334
                        New in v.1.2. An idea borrowed from apsrev4-1.bst. Declare function to enclose last word by
          bracify
                    braces even if empty.
                   335 FUNCTION {bracify}
                   336 { duplicate$ empty$
                           { pop$ "{}" }
                   337
                           { "{" swap$ * "}" * }
                   338
                   339
                        if$
                   340 }
                   341
                     This and the next functions are used to enclose last word by brackets.
e.square.brackets
                   342 FUNCTION {enclose.square.brackets}
                   343 {
                        duplicate$ empty$
                   344
                           { pop$ "" }
                   345
                           { "[" swap$ * "]" * }
                   346
                   347
                        if$
                   348 }
                   349
se.round.brackets
                   350 FUNCTION {enclose.round.brackets}
                   351 {
                        duplicate$ empty$
                   352
                          { pop$ "" }
                   353
                           { "(" swap$ * ")" * }
                   354
                   355
                   356 }
                   357
       space.word
                        space.word inserts space before last string in stack.
                   358 FUNCTION {space.word}
                   359 { " " swap$ * " " * }
                   360
                           Standard abbreviations
                    2.3
         bbl.edby
                   Declare language-sensitive abbreviations.
                   361 FUNCTION {bbl.edby}
                                               % { "\bbledby{}" }
                   362 { curlanguage "english" =
                          {"Ed.\ by"}
                   363
                          { curlanguage "ukrainian" =
                   364
                   365 (!utf8)
                                   {"{\cyr\CYRP\cyrii\cyrd\ \cyrr\cyre\cyrd.}"}
                   366 (utf8)
                                  {"Під ред."}
```

{ curlanguage "russian" =

{"Под ред."}
{ curlanguage "german" =

367 368 (!utf8)

370

369 (utf8)

{"{\cyr\CYRP\cyro\cyrd\ \cyrr\cyre\cyrd.}"}

```
{ "ed." }
             371
             372
                             {"language is not defined: " language "edby" * * warning$ "Ed.\ by"}
             373
                       if$}
             374
             375
                    if$}
             376 if$}
             377
  bbl.cmplr
             378 FUNCTION {bbl.cmplr}
             379 { curlanguage "english" =
                    { "Compiler"}
                    { curlanguage "german" =
             381
             382
                       { "Hrsg." }
                       { curlanguage "ukrainian" =
             383
                                {"{\cyr\CYRU\cyrk\cyrl.}"}
             384 (!utf8)
                               {"{Укл.}"}
             385 (utf8)
             386
                          { curlanguage "russian" =
             387 (!utf8)
                                   {"{\cyr\CYRS\cyro\cyrs\cyrt.}"}
             388 (utf8)
                                  {"{Cocr.}"}
             389
                             {"language is not defined: " language "cmplr" * * warning$ "Compiler"}
                          if$}
             390
                       if$}
             391
             392
                    if$}
             393 if$}
             394
bbl.edition
             395 FUNCTION {bbl.edition} % { "\bbledition{}" }
             396 { curlanguage "english" =
                    {"edition"}
             397
                    { curlanguage "ukrainian" =
             398
             399 (!utf8)
                            {"{\cyr\cyrv\cyri\cyrd.}"}
             400 (utf8)
                            {"{вид.}"}
                       { curlanguage "russian" =
             402 (!utf8)
                                {"{\cyr\cyri\cyrz\cyrd.}"}
                               {"{изд.}"}
             403 (utf8)
                          { curlanguage "german" =
             404
                             {" {aus.}" } %%%% { "Aufl." } ??
             405
                             { curlanguage "italian" =
             406
                                 {"edizione"}
             407
                                 { curlanguage "french" =
             408
             409
                                    {"\'{e}dition"}
             410
                                    {"language is not defined: " language "edition" * * warning$ "edition"}
                                 if$}
             411
                             if$}
             412
                          if$}
             413
             414
                       if$}
             415
                    if$}
             416 if$}
             417
```

```
bbl.vvolume
             418 FUNCTION {bbl.vvolume} % { "\bblVolume{}" }
             419 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
             420
                   {"Volume"}
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             421
                           { "\CYRT\cyro\cyrm" }
             422 (!utf8)
                           { "Tom" }
             423 (utf8)
                      { curlanguage "german" =
             424
                          {"{Band}"} %%%% { "Volumen" }
             425
                          {"language is not defined: " language "vvolume" * * warning$ "Volume"}
             426
                      if$}
             427
                   if$}
             428
             429 if$}
             430
   bbl.vvol
             431 FUNCTION {bbl.vvol}
                                        % { "\bblVol{}" }
             432 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             434
             435 (!utf8)
                            {"\CYRT."}
                            {"T."}
             436 (utf8)
                      { curlanguage "german" =
             437
                          {"{Bd.}"} %%%% { "Vol." }
             438
                          {"language is not defined: " language "vvol" * * warning$ "Vol."}
             439
             440
                      if$}
                   if$}
             441
             442 if$}
             443
bbl.iissue
             444 FUNCTION {bbl.iissue} % { "\bblIssue{}" }
             445 { curlanguage "english" =
             446
                   {"Issue"}
                   { curlanguage "ukrainian" =
             447
             448 (!utf8)
                            {"\CYRV\cyri\cyrp\cyru\cyrs\cyrk"}
             449 (utf8)
                            {"Випуск"}
                      { curlanguage "russian" =
             450
             _{451}~\langle!utf8\rangle
                               {"\CYRV\cyrery\cyrp\cyru\cyrs\cyrk"}
             452 (utf8)
                               {"Выпуск"}
                          { curlanguage "german" =
             453
             454
                             {"{Heft}"} %%%% { "Ausgabe" }
                             {"language is not defined: " language "iissue" * * warning$ "Issue"}
             455
                          if$}
             456
             457
                      if$}
             458
                   if$}
             459 if$}
             460
   bbl.iiss
             461 FUNCTION {bbl.iiss} % { "\bblIss{}" }
```

```
462 { curlanguage "english" =
                {"Iss."}
                 { curlanguage "ukrainian" =
                          {"\CYRV\cyri\cyrp."}
          465 (!utf8)
          466 \langle utf8 \rangle
                         {"Вип."}
                    { curlanguage "russian" =
          467
          468 (!utf8)
                             {"\CYRV\cyrery\cyrp."}
          469 (utf8)
                             {"Вып."}
          470
                       { curlanguage "german" =
                           {"{H.}"}
          471
                           {"language is not defined: " language "iiss" * * warning$ "Iss."}
          472
          473
                       if$}
                    if$}
          474
          475
                 if$}
          476 if$}
          477
 bbl.of
          478 FUNCTION {bbl.of}
                                      % { "\bblof{}" }
          479 { curlanguage "english" =
                 {"of"}
          480
          481
                 { curlanguage "german" =
                    { "von" }
          482
                    { curlanguage "ukrainian" =
          484 (!utf8)
                            { "{\cyr\cyrii\cyrz}" }
                             { "{is}" }
          485 (utf8)
                       { curlanguage "russian" =
          486
                                { "{\cyr\cyri\cyrz}" }
          487 (!utf8)
                                { "{из}" }
          488 (utf8)
                           {"language is not defined: " language "of" * * warning$ "of"}
          489
          490
                       if$}
          491
                    if$}
          492
                 if$}
          493 if$}
          494
bbl.etal
          495 FUNCTION {bbl.etal}
                                     % { "\bblof{}" }
          496 { curlanguage "english" =
                 {"et~al."}
          497
                 { curlanguage "german" =
          498
          499
                    { "u.~a." }
          500
                    { curlanguage "ukrainian" =
          501 \langle !utf8 \rangle
                             {"{\cyr\cyrt\cyra~\cyrii\cyrn.}"}
          502~\langle \text{utf8} \rangle
                             {"{та~ін.}"}
                       { curlanguage "russian" =
          503
          504 (!utf8)
                                {"{\cyr\cyri~\cyrd\cyrr.}"}
          505 (utf8)
                                {"и~др."}
          506
                           {"language is not defined: " language "et~al" * * warning$ "et~al."}
          507
                       if$}
                    if$}
          508
```

```
if$}
             509
             510 if$}
             511
    bbl.and
             512 (*natbib)
                                       % { "\bbland{}" }
             513 FUNCTION {bbl.and}
             514 { curlanguage "english" =
                   {"and"}
             515
             516
                   { curlanguage "german" =
                      { "und" }
             517
             518
                       { curlanguage "ukrainian" =
             519 (!utf8)
                               {"{\cyrii}"}
             520 (utf8)
                               {"i"}
                          { curlanguage "russian" =
             521
                                  {"{\cyri}"}
             522 (!utf8)
             523 (utf8)
                                  {"и"}
                             {"language is not defined: " language "and" * * warning$ "and"}
             524
             525
                          if$}
             526
                      if$}
             527
                   if$}
             528 if$}
             529 (/natbib)
             530
bbl.nnumber
             531 FUNCTION {bbl.nnumber} % { "\bblNumber{}" }
             532 { curlanguage "english" =
             533
                   {"Number"}
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             534
                           { "\CYRN\cyro\cyrm\cyre\cyrr" }
             535 (!utf8)
                           { "{Homep}" }
             536 (utf8)
             537
                      { curlanguage "german" =
                          {"{Heft}"} %%% { "Anzahl" }
             538
                          {"language is not defined: " language "nnumber" * * warning$ "Number"}
             539
             540
                      if$}
             541
                   if$}
             542 if$}
             543
bbl.number
             544 FUNCTION {bbl.number} % { "\bblnumber{}" }
             545 { curlanguage "english" =
             546
                   {"number"}
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             548 (!utf8)
                            {"{\cyr\cyrn\cyro\cyrm\cyre\cyrr}"}
             549 (utf8)
                           {"{номер}"}
             550
                      { curlanguage "german" =
                          {"{Heft}"} %%% { "anzahl" }???
             551
                          {"language is not defined: " language "number" * * warning$ "number"}
             552
             553
                      if$}
                   if$}
             554
```

```
555 if$}
        556
bbl.nr
        558 { curlanguage "english" =
              {"no."}
        559
        560
              { curlanguage "italian" =
                 { "no" }
        561
                 { curlanguage "ukrainian" = curlanguage "russian" = or
        562
        563 (!utf8)
                         { "{\cyr\textnumero}" }
        564 (utf8)
                         { "{J₽}" }
                    { curlanguage "german" =
        565
        566
                       {"{H.}"} %%% { "an." }
        567
                       {"language is not defined: " language "nr" * * warning$ "no."}
                    if$}
        568
        569
                 if$}
        570
              if$}
        571 if$}
        572
bbl.nnr
        573 FUNCTION {bbl.nnr}
                               % { "\bblno{}" }
        574 { curlanguage "english" =
              {"No."}
        575
              { curlanguage "ukrainian" = curlanguage "russian" = or
        576
        577 (!utf8)
                     { "{\cyr\textnumero}" }
                     { "{JP}" }
        578 (utf8)
        579
                 { curlanguage "german" =
        580
                    {"{H.}"} %%% { "an." }
                    {"language is not defined: " language "nnr" * * warning$ "No."}
        581
                 if$}
        582
        583
              if$}
        584 if$}
        585
bbl.in
        587 { curlanguage "english" = curlanguage "german" = or
             {"in"}
              { curlanguage "ukrainian" = curlanguage "russian" = or
        589
        590 (!utf8)
                     { "{\cyr\cyrv}" }
        591 \langle utf8 \rangle
                      { "{B}" }
        592
                 {"language is not defined: " language "in" * * warning$ "in"}
        593
              if$}
        594 if$}
        595
bbl.iin
        596 FUNCTION {bbl.iin} %
                                   { "\bblIn{}" }
        597 { curlanguage "english" = curlanguage "german" = or
        598 {"In"}
```

```
{ curlanguage "ukrainian" = curlanguage "russian" = or
           600 (!utf8) { "\CYRV" }
                          { "{B}" }
                     {"language is not defined: " language "iin" * * warning$ "In"}
           602
           603
                  if$}
           604 if$}
           605
 bbl.pages
                                     % { "\bblpp." }
           606 FUNCTION {bbl.pages}
           607 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                 {"p."} %%% {"pp."}
                  { curlanguage "ukrainian" = curlanguage "russian" = or
           610 (!utf8)
                          {"{\cyr\cyrs.}"}
           611 (utf8)
                         {"{c.}"}
           612
                     { curlanguage "german" =
           613
                        {"S."} %%%% { "s." }
                        {"language is not defined: " language "pages" * * warning$ "p."}
           614
           615
                     if$}
           616
                 if$}
           617 if$}
           618
  bbl.page
           619 FUNCTION {bbl.page} % { "\bblp."
           620 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                  { curlanguage "ukrainian" = curlanguage "russian" = or
           623 (!utf8)
                          {"{\cyr\cyrs.}"}
                          {"{c.}}"}
           624 (utf8)
                     { curlanguage "german" =
           625
                        {"S."} %%%% { "s." }
           626
           627
                        {"language is not defined: " language "page" * * warning$ "p."}
           628
                     if$}
           629
                 if$}
           630 if$}
           631
bbl.ppages
           632 FUNCTION {bbl.ppages}% { "\bblPp." }
           633 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                 {"P."} %%%% { "Pp." }
                  { curlanguage "ukrainian" = curlanguage "russian" = or
           636 (!utf8)
                         {"{\cyr\CYRS.}"}
           637 (utf8)
                         {"{C.}"}
                    { curlanguage "german" =
           638
           639
           640
                        {"language is not defined: " language "ppages" * * warning$ "P."}
           641
                     if$}
           642
                  if$}
           643 if$}
           644
```

```
bbl.ppage
            645 FUNCTION {bbl.ppage} % { "\bblP." }
            646 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
            647
                  {"P."}
                  { curlanguage "ukrainian" = curlanguage "russian" = or
            648
                           {"{\cyr\CYRS.}"}
            649 (!utf8)
                          {"{C.}"}
            650 (utf8)
                     { curlanguage "german" =
            651
                        {"S."}
            652
                        {"language is not defined: " language "ppage" * * warning$ "P."}
            653
                     if$}
            654
                  if$}
            655
            656 if$}
            657
   bbl.url Next function was added in version 2016.07.07.
            658 FUNCTION {bbl.url}
            659 { curlanguage "english" =
                  {"Access mode"}
            660
                  { curlanguage "ukrainian" =
            661
                          { "{\CYRR\cyre\cyrzh\cyri\cyrm\ \cyrd\cyro\cyrs\cyrt\cyru\cyrp\cyru}" }
            662 (!utf8)
                          { "{Режим доступу}" }
            663 (utf8)
                     { curlanguage "russian" =
            664
            665 (!utf8)
                              { "{\CYRR\cyre\cyrzh\cyri\cyrm\ \cyrd\cyro\cyrs\cyrt\cyru\cyrp\cyra}" }
            666 (utf8)
                             { "{Режим доступа}" }
                        { curlanguage "german" =
            667
                           { "{online; abgerufen}" }
            668
                           { "language is not defined: " language "urldate" * * warning$ "online; accessed" }
            669
            670
                        if$}
            671
                     if$}
            672
                  if$}
            673 if$}
bbl.urldate Next function was added in version 2012.01.15.
            674 FUNCTION {bbl.urldate}
            675 { curlanguage "english" =
                  {"online; accessed"}
            676
                  { curlanguage "ukrainian" =
            677
            678 (!utf8)
                           { "{\cyrd\cyra\cyra\cyrz\cyrv\cyre\cyrr\cyrn\cyrn\cyrn\cyrn\cyrya}" }
               (utf8)
                          { "{дата звернення}" }
            679
                     { curlanguage "russian" =
            680
            681 (!utf8)
                              { "{дата обращения}" }
            682 (utf8)
                        { curlanguage "german" =
            683
                           { "{online; abgerufen}" }
            684
                           { "language is not defined: " language "urldate" * * warning$ "online; accessed" }
            685
                        if$}
            686
                     if$}
            687
            688
                  if$}
            689 if$}
            690
```

```
bbl.techreport
                691 FUNCTION {bbl.techreport} % rename to bbl.techreport
                692 { curlanguage "english" =
                      { "Rep." }
                693
                694
                      { curlanguage "german" =
                          { "Bericht" }
                695
                          { curlanguage "russian" =
                696
                                  { "{\cyr\CYRO\cyrt\cyrch\cyre\cyrt}" }
                697 (!utf8)
                698 (utf8)
                                  { "{Orчer}" }
                             { "language is not defined: " language "techrep" * * warning$ "Rep." }
                699
                700
                          if$}
                      if$}
                701
                702 if$}
                703
  bbl.mathesis
                704 FUNCTION {bbl.mathesis}
                705 { curlanguage "english" =
                      { "Master's thesis" }
                706
                      { curlanguage "german" =
                707
                          { "Diss.~Mag." }
                708
                          { curlanguage "russian" =
                709
                710 (!utf8)
                                  { "{\cyr\CYRK\cyrv\cyra\cyrl\cyri\cyri\cyri\cyrk\cyra\cyrc\cyri"
                                    "\cyro\cyrn\cyrn\cyra\cyrya\ \cyrr\cyra\cyrb\cyro\cyrt\cyra\ " *
                711 (!utf8)
                                    "\cyrm\cyra\cyrg\cyri\cyrs\cyrt\cyrr\cyra}" * }
                712 (!utf8)
                                  { "{Квалификационная работа магистра}" }
                713 (utf8)
                             { "language is not defined: " language "mthesis" * * warning$ "Master's thesis" }
                714
                715
                          if$}
                716
                      if$}
                717 if$}
                718
 bbl.phdthesis
                719 FUNCTION {bbl.phdthesis}
                720 { curlanguage "english" =
                      { "Ph.\,D. thesis" }
                721
                       { curlanguage "german" =
                722
                          { "Diss.~Ph.\,D." }
                723
                724
                          { curlanguage "russian" =
                725 (!utf8)
                                   { "{\cyr\cyrd\cyri\cyrs.\ \ldots\ \cyrk\cyra\cyrn\cyrd. "
                726 (!utf8)
                                     "\cyrn\cyra\cyru\cyrk}" * }
                                  { "{дис.\ \ldots\ канд. наук}" }
                727 (utf8)
                             { curlanguage "french" =
                728
                               { "Th\'{e}se de doctorat" }
                729
                               { "language is not defined: " language "phdthesis" * * warning$ "Ph.\,D. thesis" }
                730
                731
                             if$}
                732
                          if$}
                733
                      if$}
                734 if$}
                735
```

bbl.docthesis

```
736 FUNCTION {bbl.docthesis}
                  737 { curlanguage "english" =
                        { "Dr.\,Sci. dissertation" }
                        { curlanguage "german" =
                  739
                           { "Diss.~Dr." }
                  740
                           { curlanguage "russian" =
                  741
                  742 (!utf8)
                                    { "{\cyr\cyrd\cyri\cyrs.\ \ldots\ \cyrd-\cyrr\cyra\ "
                  743 (!utf8)
                                     "\cyrn\cyra\cyru\cyrk}" * }
                  744 (utf8)
                                   { "{дис.\ \ldots\ д-ра наук}" }
                              { "language is not defined: " language "docthesis" * * warning$ "Dr.\,Sci. dissertation" }
                  745
                  746
                           if$}
                  747
                        if$}
                  748 if$}
                  749
bbl.thesis.type'
                  750 FUNCTION {bbl.thesis.type}
                  751 { type "mathesis" =
                  752 { bbl.mathesis }
                  753 { type "phdthesis" =
                         { bbl.phdthesis }
                  754
                         { type "docthesis" =
                  755
                           { bbl.docthesis }
                  756
                           %%{ "!!!" type * "t" change.case$ }
                  757
                  758 (!utf8)
                                { type "t" change.case$ }
                  759 (utf8)
                                { type }
                  760
                         if$}
                  761 if$}
                  762 if$}
                  763
  bbl.nnoaddress
                  764 FUNCTION {bbl.nnoaddress}
                  765 { curlanguage "english" =
                      { "S.\ 1." }
                  766
                      { curlanguage "russian" =
                  767
                  768 (!utf8) { "{\cyr\CYRB.\ \cyrm.}" }
                  769 (utf8)
                               { "{B.\ м.}" }
                           { "language is not defined: " language "nnoaddress" * * warning$ "S.\ l." }
                  770
                  771
                  772 if$}
                  773
 bbl.nopublisher
                  774 FUNCTION {bbl.nopublisher}
                  775 { curlanguage "english" =
                  776
                       { "s.\ n." }
                  777
                       { curlanguage "russian" =
                  778 (!utf8) { "{\cyr\cyrb.\ \cyri.}" }
                  779 (utf8)
                               { "{б.\ и.}" }
                  780
                           { "language is not defined: " language "nnopublisher" * * warning$ "s.\ n." }
                  781
```

```
782 if$}
                 783
bbl.nnopublisher
                 784 FUNCTION {bbl.nnopublisher}
                 785 { curlanguage "english" =
                      { "S.\ n." }
                 786
                       { curlanguage "russian" =
                 787
                              { "{\cyr\CYRB.\ \cyri.}" }
                 788 (!utf8)
                              { "{Б.\ и.}" }
                 789 (utf8)
                          { "language is not defined: " language "nnopublisher" * * warning$ "S.\ n." }
                 792 if$}
                 793
  bbl.media.text
                 794 FUNCTION {bbl.media.text}
                 795 { curlanguage "english" =
                 796
                      { "Text" }
                       { curlanguage "russian" = curlanguage "ukrainian" = or
                 797
                              { "{\cyr\CYRT\cyre\cyrk\cyrs\cyrt}" }
                 798 (!utf8)
                              { "{Tekct}" }
                 799 (utf8)
                          { "language is not defined: " language "media" * * warning$ "Text" }
                       if$}
                 801
                 802 if$}
                 803
l.media.eresource
                 804 FUNCTION {bbl.media.eresource}
                 805 { curlanguage "english" =
                       { "Electronic resource" }
                       { curlanguage "russian" =
                               808 (!utf8)
                                 "\cyrr\cyre\cyrs\cyru\cyrr\cyrs}" * }
                 809 (!utf8)
                              { "{Электронный ресурс}" }
                 810 (utf8)
                          { curlanguage "ukrainian" =
                 811
                                 { "{\cyr\CYRE\cyrl\cyre\cyrk\cyrt\cyrr\cyrn\cyrn\cyrn\cyrn\cyri\cyrishrt\ "
                 812 (!utf8)
                                   "\cyrr\cyre\cyrs\cyru\cyrr\cyrs}" * }
                 813 (!utf8)
                                { "{Електронний ресурс}" }
                 814 (utf8)
                            { "language is not defined: " language "media" * * warning$ "Electronic resource" }
                 815
                          if$}
                 816
                       if$}
                 817
                 818 if$}
                 819
bbl.media.online
                 820 FUNCTION {bbl.media.online}
                 821 { curlanguage "english" =
                       { "Electronic resource online" }
                       { curlanguage "russian" =
                 824 (!utf8)
                               825 (!utf8)
                                 "\cyrr\cyre\cyrs\cyru\cyrr\cyrs\ \cyro\cyrn\cyrl\cyra\cyrn\cyrn\" * }
```

```
{ "{Электронный ресурс онлайн}" }
             826 (utf8)
                       { curlanguage "ukrainian" =
             828 (!utf8)
                              829 (!utf8)
                                 "\cyrr\cyre\cyrs\cyru\cyrr\cyrs\ \cyro\cyrn\cyrl\cyra\cyrishrt\cyr}" * }
                              { "{Електронний ресурс онлайн}" }
             830 (utf8)
                         { "language is not defined: " language "media" * * warning$ "Electronic resource" }
             831
                       if$}
             832
             833
                    if$}
             834 if$}
             835
  bbl.chief
             836 FUNCTION {bbl.chief}
             837 { curlanguage "english" =
                    { "chief" }
                    { curlanguage "russian" =
             839
             840 (!utf8)
                            { "\cyrr\cyru\cyrk." }
                            { "{pyk.}" }
             841~\langle \text{utf8} \rangle
                       { curlanguage "ukrainian" =
             842
                           { "\cyrr\cyru\cyrk." }
             843 (!utf8)
             844 (utf8)
                             { "{pyk.}" }
                         { "language is not defined: " language "chief" * * warning$ "chief" }
             845
                       if$}
             846
                    if$}
             847
             848 if$}
             849
bbl.executor
             850 FUNCTION {bbl.executor}
             851 { curlanguage "english" =
                    { "Executor" }
                    { curlanguage "russian" =
             853
             854 (!utf8)
                           { "{\cyr\cyri\cyrs\cyrp\cyro\cyrl\cyrn.}" }
             855 (utf8)
                           { "{исполн.}" }
                       { curlanguage "ukrainian" =
             856
             857 (!utf8)
                              { "{\cyr\cyrv\cyri\cyrk\cyro\cyrn\cyra\cyrv\cyre\cyrc\cyrsftsn}" }
             858~\langle \text{utf8} \rangle
                              { "{виконавець}" }
                         { "language is not defined: " language "executor" * * warning$ "executor" }
             859
             860
                       if$}
             861
                    if$}
             862 if$}
             863
  bbl.media
             864 %FUNCTION {bbl.media}
             865 %{ type$ "online" =
             866 % { bbl.media.eresource }
             867 %
                    { bbl.media.text }
             868 %if$}
             869 FUNCTION {bbl.media}
             870 { media "online" =
             871 { bbl.media.online }
```

```
{ media "eresource" =
               872
               873
                        { bbl.media.eresource }
               874
                        { bbl.media.text }
               875
                     if$}
               876 if$}
               877
     bbl.req
               878 FUNCTION {bbl.req}
               879 {
                    curlanguage "english" =
               880
                      { "req." }
               881
               882
                       { curlanguage "german" =
                         { "ang." }
               883
                         { curlanguage "russian" =
               884
               885 (!utf8)
                                 { "{\cyr\cyrz\cyra\cyrya\cyrv\cyrl.}" }
               886~\langle \text{utf8} \rangle
                                { "{заявл.}" }
                           { "language is not defined: " language "req" * * warning$ "req" }
               887
               888
                         if$
                         }
               889
               890
                      if$
               891
                      }
                    if$
               892
               893 }
               894
    bbl.publ
               895 FUNCTION {bbl.publ}
               896 {
                    curlanguage "english" =
               897
                      { "publ." }
               898
                       { curlanguage "german" =
               899
                         { "ausg." }
               900
                         { curlanguage "russian" =
               901
               902 (!utf8)
                                { "{\cyr\cyro\cyrp\cyru\cyrb\cyrl.}" }
               903 (utf8)
                                { "{опубл.}" }
                           { "language is not defined: " language "publication" * * warning$ "publication" }
               904
                         if$
               905
               906
                         }
               907
                      if$
                      }
               908
                    if$
               909
              910 }
               911
bbl.priority
              912 FUNCTION {bbl.priority}
              913 {
                    curlanguage "english" =
               914
               915
                      { "priority" }
                      { curlanguage "german" =
               916
               917
                         { "Prioritat" }
```

```
918
         { curlanguage "russian" =
                 { "{\cyr\cyrr\cyri\cyro\cyrr\cyri\cyrt\cyre\cyrt}" }
919 (!utf8)
920 (utf8)
                 { "{приоритет}" }
           { "language is not defined: " language "priority" * * warning$ "priority" }
921
922
         if$
         }
923
       if$
924
925
926
     if$
927 }
928
```

2.4 Formatting functions

Declare functions to format separate elements of bibliographic reference.

```
929 INTEGERS { nameptr namesleft numnames } 930 931
```

format.names

Function format.names has 2 version. First is for bibliographic records rather then for bibliographic references. It is used for .bst styles compiled without the modern option. It format every name as 'LastName, F. S.'. Historically, this version was used first for earlier styles included into GOST bundle.

Important note

Neither bibtex nor bibtex8 can handle unicoded text without troubles. In particular, they fail to reduce a Cyrillic name to initials. Therefore we avoid using f. primitive when option utf8 is in effect.

```
932 (*!modern)
933 FUNCTION {format.names}
934 {
935 (!utf8) #1 "{vv~}{11}{~jj}{,~f.}" format.name$
936 (utf8) #1 "{vv~}{11}{~jj}{,~ff}" format.name$
937 }
938 (/!modern)
```

Second version drops comma from output so that every name is formatted as 'LastName F. S.'. It also substitutes 4th and following names by localized term 'et al'.

```
939 (*modern)
940 FUNCTION {format.names}
941 {
942
      's :=
943
     #1 'nameptr :=
     s num.names$ 'numnames :=
     numnames 'namesleft :=
946
        { namesleft #0 > }
947
        { s nameptr
                 "{vv~}{11}{~jj}{~f.}" format.name$ 't :=
948 (!utf8)
                "\{vv^{-}\}\{11\}\{\tilde{j}\}\{\tilde{f}\}" \text{ format.name} \ 't :=
949 (utf8)
950
          nameptr #1 >
             \{ nameptr #4 =
951
```

```
numnames #4 > and
952
                  { "others" 't :=
953
                    #1 'namesleft := }
954
                  'skip$
955
               if$
956
               namesleft #1 >
957
                  { ", " * t * }
958
959
                  { t "others" =
960
               t "~others" =
961
               or
                              { " " * bbl.etal * }
962 (!strict)
                             { " " * bbl.etal enclose.square.brackets *}
963 (strict)
                      { ", " * t * }
964
                    if$
965
                  }
966
               if$
967
             }
968
             'nt
969
           if$
970
          nameptr #1 + 'nameptr :=
971
972
          namesleft #1 - 'namesleft :=
        }
973
      while$
974
975 }
976 \langle /\mathsf{modern} \rangle
```

format.lab.names

Declare function to go to optional argument of \bibitem in the styles generated with the option natbib.

```
978 (*natbib)
979 FUNCTION {format.lab.names}
980 { 's :=
981
     language empty$
982
        { "english" 'curlanguage := }
983
        { language 'curlanguage := }
984
     if$
     s #1 "{vv~}{11}" format.name$
985
986
     s num.names$ duplicate$
     #2 >
987
       %{ pop$ " et~al." * }
988
       { pop$ " " bbl.etal * * }
989
        { #2 <
990
991
            'skip$
            \{ s \#2 \#ff \} \{ vv \} \{ 11 \} \{ jj \} \#format.name \# "others" = 
992
                %{ " et~al." * }
993
994
                { " " bbl.etal * * }
                %{ }  and " * s #2 "{vv^}{11}" format.name$ * }
995
                { " " bbl.and " " * * * s #2 "{vv~}{11}" format.name$ * }
996
997
              if$
998
            }
          if$
999
```

```
1000 }
1001 if$
1002 }
1003 \( /natbib \)
1004
```

format.names.rev

Declare function to format names for authors/bookauthors list after title and etc. Note that format.names.rev cuts list of names to at most 4 persons. We do not cut names to initials in this list.

```
1005 FUNCTION {format.names.rev}
1006 {
1007
      's :=
1008
      #1 'nameptr :=
1009
      s num.names$ 'numnames :=
      numnames 'namesleft :=
1010
1011
        { namesleft #0 > }
        { s nameptr
1012
                 %"{f.}{^\sim}vv}{^\sim}11}{, jj}" format.name$ 't :=
1013 (!utf8)
1014 (!utf8)
                 "{ff}{~vv}{~ll}{, jj}" format.name$ 't :=
                "\{ff\}_{vv}_{i, jj}" format.name$ 't :=
1015 (utf8)
1016
           nameptr #1 >
             {nameptr #4 =}
1017
               numnames #4 > and
1018
                 { "others" 't :=
1019
                   #1 'namesleft := }
1020
1021
                  'skip$
1022
               namesleft #1 >
1023
                 { ", " * t * }
1024
                 { t "others" =
1025
               t "~others" =
1026
1027
                             { " " * bbl.etal * }
1028 (!strict)
                            { " " * bbl.etal enclose.square.brackets * }
1029 (strict)
1030
                   if$
1031
                 }
1032
               if$
1033
1034
             }
1035
             'nt
1036
           nameptr #1 + 'nameptr :=
1037
           namesleft #1 - 'namesleft :=
1038
1039
1040
      while$
1041 }
1042
```

format.key Function to substitute empty field (usually, author name) with the key field.

1043 (*natbib)
1044 FUNCTION {format.key}

```
1045 { empty$
                           { key field.or.null }
                           { "" }
                  1048
                        if$
                  1049 }
                  1050 \langle /natbib \rangle
                  1051
  format.authors
                  1052 FUNCTION {format.authors}
                  1053 { author empty$
                           { "" }
                  1055
                           { author format.names emphasize}
                  1056
                        if$
                  1057 }
                  1058
author.key.label
                  1059 \langle *natbib \rangle
                  1060 FUNCTION {author.key.label}
                  1061 { author empty$
                           { key empty$
                  1063
                                { cite$ #1 #3 substring$ }
                  1064
                                'key
                  1065
                             if$
                           }
                  1066
                           { author format.lab.names }
                  1067
                  1068
                         if$
                  1069 }
                  1070
                  1071 FUNCTION {author.editor.key.label}
                  1072 { author empty$
                           { editor empty$
                  1073
                                { key empty$
                  1074
                                    { cite$ #1 #3 substring$ }
                  1075
                  1076
                                    %'key
                                                     %% causes lost of year
                                    { "{}" key * } %% Bug in bibtex8 ??
                  1077
                  1078
                                  if$
                               7
                  1079
                                { editor format.lab.names }
                  1080
                  1081
                             if$
                  1082
                  1083
                           { author format.lab.names }
                  1084
                         if$
                  1085 }
                  1086
                  1087 FUNCTION {author.key.organization.label}
                  1088 { author empty$
                  1089
                           { key empty$
                  1090
                                { organization empty$
                  1091
                                    { cite$ #1 #3 substring$ }
```

```
{ "The " #4 organization chop.word #3 text.prefix$ }
1092
1093
               if$
            }
1094
             'key
1095
          if$
1096
1097
        { author format.lab.names }
1098
1099
      if$
1100 }
1101
1102 FUNCTION {editor.key.organization.label}
1103 { editor empty$
        { key empty$
1104
             { organization empty$
1105
1106
                 { cite$ #1 #3 substring$ }
1107
                 { "The " #4 organization chop.word #3 text.prefix$ }
1108
               if$
1109
             'key
1110
          if$
1111
1112
1113
        { editor format.lab.names }
      if$
1114
1115 }
1116
1117 FUNCTION {calc.short.authors}
1118 { type$ "book" =
      type$ "inbook" =
1119
1120
1121
        'author.editor.key.label
1122
        { type$ "proceedings" =
             'editor.key.organization.label
1123
             { type$ "manual" =
1124
1125
                 'author.key.organization.label
1126
                 'author.key.label
1127
               if$
1128
1129
          if$
        }
1130
      if$
1131
1132
      'short.list :=
1133 }
1134
1135 FUNCTION {calc.label}
1136 { calc.short.authors
1137
      short.list
      "("
1138
1139
      year duplicate$ empty$
1140
      short.list key field.or.null = or
```

```
1144
                  1145 *
                        'label :=
                  1146
                  1147 }
                  1148
                  1149 (/natbib)
                  1150
                     This function is used only once, in bookauthor.before, and the latter is used only in inbook
ormat.bookauthors
                  1151 FUNCTION {format.bookauthors}
                  1152 { bookauthor empty$
                          { "" }
                          { bookauthor format.names}
                        if$
                  1155
                  1156 }
                  1157
mat.authors.after
                  1158 FUNCTION {format.authors.after}
                  1159 { author empty$
                          { "" }
                          { author format.names.rev}
                  1162
                       if$
                  1163 }
                  1164
bookauthors.after
                  1165 FUNCTION {format.bookauthors.after}
                  1166 { bookauthor empty$
                          { "" }
                  1167
                          { bookauthor format.names.rev}% always cuts to 4 persons
                  1168
                  1169
                       if$
                  1170 }
                  1171
mat.editors.after
                  1172 FUNCTION {format.editors.after}
                  1173 { editor empty$
                          { "" }
                          { bbl.edby "\ " * editor format.names.rev * }
                  1176 if$
                  1177 }
                  1178
ormat.chief.after
                  1179 FUNCTION {format.chief.after}
                  1180 { editor empty$
                  1181
                          { "" }
                  1182
                          { bbl.chief "\ " * editor format.names.rev * }
```

{ pop\$ "" }

'skip\$

 $1142\\1143$

```
1184 }
                  1185
at.executor.after
                  1186 FUNCTION {format.executor.after}
                  1187 { author empty$
                  1188
                           { "" }
                           { bbl.executor ": " * author format.names.rev * }
                  1189
                        if$
                  1190
                  1191 }
                  1192
at.compiler.after
                  1193 FUNCTION {format.compiler.after}
                  1194 { compiler empty$
                           { "" }
                  1195
                           { bbl.cmplr "\ " * compiler format.names.rev * }
                  1196
                  1197
                         if$
                  1198 }
                  1199
```

1183 if\$

format.title Important note Neither bibtex nor bibtex8 can handle unicoded text without troubles. In particular, bibtex8 fails to change case of a string if it contains Cyrillic letter. Therefore we avoid using change.case\$ when option utf8 is in effect.

format.month New in version 1.2d. This macro reads month field and translate English names of months to Russian if current language is Russian.

```
1208 FUNCTION {format.month}
1209 { month empty$
        { "" }
1210
        { curlanguage "russian" =
1211
             { month "Jan." =
1212
                       { "\CYRYA\cyrn\cyrv." }
1213 (!utf8)
                       { "Янв." }
1214 (utf8)
             { month "Feb." =
1215
1216 (!utf8)
                       { "\CYRF\cyre\cyrv\cyrr." }
1217 (utf8)
                       { "Фев." }
1218
             { month "Mar." =
1219 (!utf8)
                       { "\CYRM\cyra\cyrr\cyrt" }
                       { "Март" }
1220 (utf8)
             { month "Apr." =
1221
                       { "\CYRA\cyrp\cyrr." }
1222 (!utf8)
1223 (utf8)
                       { "Aπp." }
```

```
{ month "May" =
            1224
                                    { "\CYRM\cyra\cyrishrt" }
            1225 (!utf8)
                                   { "Май" }
            1226 (utf8)
                          { month "Jun." =
            1227
                                    { "\CYRI\cyryu\cyrn\cyrsftsn" }
            1228 (!utf8)
                                   { "Июнь" }
            _{1229}~\langle \text{utf8}\rangle
                          { month "Jul." =
            1230
                                    { "\CYRI\cyryu\cyrl\cyrsftsn" }
            1231 (!utf8)
            1232 (utf8)
                                   { "Июль" }
                          { month "Aug." =
            1233
                                    { "\CYRA\cyrv\cyrg\." }
            1234 (!utf8)
            1235 (utf8)
                                   { "ABr." }
                          { month "Sep." =
            1236
            _{1237}~\langle !utf8\rangle
                                    { "\CYRS\cyre\cyrn\cyrt." }
                                   { "Сент." }
            1238 (utf8)
                          { month "Oct." =
            1239
                                    { "\CYRO\cyrk\cyrt." }
            1240 (!utf8)
                                   { "Okt." }
            1241 (utf8)
            1242
                          { month "Nov." =
            1243 (!utf8)
                                    { "\CYRN\cyro\cyrya\cyrb." }
                                   { "Нояб." }
            1244 (utf8)
                          { month "Dec." =
            1245
            1246 (!utf8)
                                    { "\CYRD\cyre\cyrk." }
            1247 \langle utf8 \rangle
                                   { "Дек." }
            1248
                              { month }
                              1249
                          { month }
            1250
            1251
                          if$}
            1252
                     if$
            1253 }
format.date
            1254 FUNCTION {format.date}
            1255 { year empty$
                     { month empty$
            1256
                          { "" }
            1257
            1258
                          { "there's a month but no year in " cite$ * warning$
            1259
                            format.month
            1260
                          }
                       if$
            1261
            1262
                     { month empty$
            1263
            1264
                          'year
                          { year ". \BibDash " format.month * * }
            1265
            1266
                       if$
            1267
                     }
            1268
                   if$
            1269 (natbib) extra.label * % new in v.1.2
            1270 }
            1271
```

dress.or.location

New function in version 1.2i. Returns address value if not empty; otherwise returns location value even if the latter is empty.

```
1272 %FUNCTION {address.or.location}
1273 %{
1274 % address empty$
         { location empty$
1275 %
1276 %
            'skip$
1277 %
            { location }
         if$ }
1278 %
1279 %
         { address }
1280 % if$
1281 %}
1282 FUNCTION {address.or.location}
1283 {
      address empty$
1284
        { location }
1285
        { address }
1286
1287
      if$
1288 }
1289
```

itycode.or.number

New function in version 1.2i. Returns specialitycode value if not empty; otherwise returns number value even if the latter is empty.

1298 FUNCTION {institution.or.school}

itution.or.school

New function in version 1.2i. Returns institution value if not empty; otherwise returns school value even if the latter is empty.

```
1299 {
                    1300
                           institution empty$
                             { school}
                    1301
                    1302
                             { institution }
                    1303
                           if$
                    1304 }
address.publisher
dress.publisher.datg_{05} \langle *!strict
angle
                    1306 %FUNCTION {output.address.publisher}
                    1307 %{
                    1308 % address empty$
                              'skip$
                    1309 %
                    1310 %
                              { address output
                    1311 %
                                publisher empty$
                    1312 %
                                   'skip$
```

```
1313 %
                                 { new.colon }
                   1314 %
                               if$
                   1315 %
                            }
                   1316 % if$
                   1317 % publisher output
                   1318 %}
                   1319 FUNCTION {output.address.publisher}
                   1320 {
                   1321
                         address empty$ location empty$ and
                            'skip$
                   1322
                   1323
                            { address.or.location output
                              publisher empty$
                   1324
                                'skip$
                   1325
                                { new.colon }
                   1326
                   1327
                              if$
                   1328
                           }
                         if$
                   1329
                   1330
                         publisher output
                   1331 }
                   1332 (/!strict)
                   1333 (*strict)
                   1334 FUNCTION {output.address.publisher}
                   1335 {
                         address empty$
                   1336
                            {
                   1337
                              bbl.nnoaddress
                   1338
                              publisher empty$
                   1339
                                { "~: " * bbl.nopublisher * enclose.square.brackets }
                   1340
                   1341
                                { enclose.square.brackets "~: " * publisher * }
                              if$
                   1342
                           }
                   1343
                   1344
                              address output
                   1345
                   1346
                             new.colon
                   1347
                              publisher empty$
                                { bbl.nopublisher enclose.square.brackets }
                   1348
                                { publisher }
                   1349
                              if$
                   1350
                           }
                   1351
                         if$
                   1352
                   1353
                         output
                   1354 }
                   1355
                   1356 (/strict)
                   1357
{\tt dress.publisher.date} Otput.address.publisher.date is used in old styles. New styles use output.address.publisher.
                   1358 (*!(modern | strict))
                   1359 FUNCTION {output.address.publisher.date}
                   1360 {
                        output.address.publisher
```

```
format.date output
                   1363 }
                   1364 \(\right\)!\(\text{modern} \ | \strict\)\\
                   1365
   output.bibitem
                   1366 (*!natbib)
                   1367 FUNCTION {output.bibitem}
                   1368 { newline$
                         "\bibitem" write$
                   1369
                         cite$ bracify write$
                   1370
                   1371
                         newline$
                         langid empty$
                   1372
                   1373
                            { language empty$
                                { "english" 'curlanguage := }
                   1374
                                { language 'curlanguage := }
                   1375
                   1376
                              if$
                   1377
                            }
                   1378
                            { langid 'curlanguage := }
                   1379
                          "\selectlanguageifdefined" curlanguage bracify * write$
                   1380
                         newline$
                   1381
                   1382
                   1383
                         before.all 'output.state :=
                   1384 }
                   1385
                   1386 (/!natbib)
                          In case of natbib option, we need make.full.names to compose output.bibitem, and the
format.full.names
      author.full latter in its turn requires some more functions.
      editor.full _{1387} \langle *natbib \rangle
uthor.editor.full 1388 FUNCTION {format.full.names}
 make.full.names 1389 {'s :=
   output.bibitem 1390
                         language empty$
                            { "english" 'curlanguage := }
                   1391
                            { language 'curlanguage := }
                   1392
                         if$
                   1393
                         #1 'nameptr :=
                   1394
                         s num.names$ 'numnames :=
                         numnames 'namesleft :=
                   1396
                            { namesleft #0 > }
                   1397
                            { s nameptr
                   1398
                              "{vv~}{11}" format.name$ 't :=
                   1399
                              nameptr #1 >
                   1400
                                {
                   1401
                   1402
                                  namesleft #1 >
                   1403
                                     { ", " * t * }
                   1404
                                     {
                                      numnames #2 >
                   1405
                                       curlanguage "english" =
                   1406
                   1407
                                       and
```

```
{ "," * }
1408
1409
                    skip$'
1410
                  if$
                  t "others" =
1411
              %t "~others" =
1412
              %or
1413
                     %{ " et~al." * }
1414
                     { " " bbl.etal * * }
1415
                    %{ " and " * t * }
1416
                    { " " bbl.and " " * * * t * }
1417
                  if$
1418
                }
1419
              if$
1420
            }
1421
1422
            't
          if$
1423
          nameptr #1 + 'nameptr :=
1424
         namesleft #1 - 'namesleft :=
1425
1426
1427 while$
1428 }
1429
1430 FUNCTION {author.full}
1431 { author empty$
1432 { "" }
        { author format.full.names }
1433
1434 if$
1435 }
1436
1437 FUNCTION {editor.full}
1438 { editor empty$
      { "" }
1439
      { editor format.full.names }
1440
1441 if$
1442 }
1443
1444 FUNCTION {author.editor.full}
1445 { author empty$
        { editor empty$
1446
           { "" }
1447
            { editor format.full.names }
1448
1449
1450
1451
       { author format.full.names }
1452 if$
1453 }
1454
1455 FUNCTION {make.full.names}
1456 { type$ "book" =
1457 type$ "inbook" =
```

```
1458
       'author.editor.full
1459
1460
       { type$ "proceedings" =
           'editor.full
1461
           'author.full
1462
         if$
1463
1464
1465
     if$
1466 }
1467
1469 FUNCTION {output.bibitem}
1470 { newline$
    "\bibitem[" write$
1471
1472 label write$
     ")" make.full.names duplicate$ short.list =
1474
        { pop$ }
1475
       { * }
1476
      if$
    "]{" * write$
1477
1478 cite$ write$
    "}" write$
1479
1480 %% language empty$
         { "english" 'curlanguage := }
1481 %%
         {language 'curlanguage := }
1482 %%
1483 %% if$
1484
    langid empty$
1485
       { language empty$
           { "english" 'curlanguage := }
1486
1487
           { language 'curlanguage := }
1488
         if$
1489
       { langid 'curlanguage := }
1490
1491
     "\selectlanguageifdefined" curlanguage bracify * write$
1492
1493
     newline$
1494
1495
     before.all 'output.state :=
1496 }
1497 % ============
1498 %FUNCTION {output.bibitem}
1499 %{ newline$
1500 % "\bibitem" write$
1501 %% author.key.label
1502 %% year parenthesify *
1503 %% "; lbl:" label * *
1504 %% "; mfn:" make.full.names * *
1505 % label
1506 % make.full.names *
1507 % bracketise write$
```

```
1508 % cite$ bracify write$
             1509 % newline$
             1510 % language empty$
             1511 %
                    { "english" 'curlanguage := }
             1512 %
                     {language 'curlanguage := }
             1513 % if$
             1514 % "\selectlanguageifdefined" curlanguage bracify * write$
             1515 % newline$
             1516 % ""
             1517 % before.all 'output.state :=
             1518 %}
             1519 % ==========
             1520 (/natbib)
             1521
   n.dashify
             1522 FUNCTION {n.dashify}
             1523 { 't :=
             1524 ""
                    { t empty$ not }
             1525
                    { t #1 #1 substring$ "-" =
             1526
             1527
                        { t #1 #2 substring$ "--" = not
                            { "--" *
             1528
             1529
                              t #2 global.max$ substring$ 't :=
                            }
             1530
                            1531
                                { "-" *
             1532
             1533
                                  t #2 global.max$ substring$ 't :=
             1534
             1535
                              while$
                            }
             1536
             1537
                          if$
                        }
             1538
             1539
                        { t #1 #1 substring$ *
                          t #2 global.max$ substring$ 't :=
             1540
             1541
             1542
                      if$
                    }
             1543
             1544 while$
             1545 }
             1546
     word.in
             1547 FUNCTION {word.in}
             1548 { bbl.iin
             1549 " " * }
             1550
format.btitle
             1551 FUNCTION {format.btitle}
             1552 { title
             1553 }
```

```
1554
.or.space.connect
                  1555 FUNCTION {tie.or.space.connect}
                  1556 { duplicate$ text.length$ #3 <
                  1557
                           { "~" }
                           { " " }
                  1558
                         if$
                  1559
                        swap$ * *
                  1560
                  1561 }
                  1562
                     Declare function to insert unbreakable space before last word in stack.
      tie.connect
                  1563 FUNCTION {tie.connect}
                  1564 {"~"
                  1565
                         swap$ * *
                  1566 }
                  1567
                  1568
   either.or.chec
                  1569 FUNCTION {either.or.check}
                  1570 { empty$
                  1571
                           'pop$
                           { "can't use both " swap$ * " fields in " * cite$ * warning$ }
                  1572
                  1573
                  1574 }
                  1575
   format.bvolume
                  1576 FUNCTION {format.bvolume}
                  1577 { volume empty$
                           { "" }
                  1578
                           { bbl.vvol volume tie.connect
                  1579
                  1580
                             series empty$
                  1581
                               'skip$
                               { bbl.of space.word * series emphasize * }
                  1582
                  1583
                             "volume and number" number either.or.check
                  1584
                  1585
                         if$
                  1586
                  1587 }
                  1588
mat.number.series
                  1589 FUNCTION {format.number.series}
```

1590 { volume empty\$

1591

1592 1593

1594 1595

{ number empty\$

{ series field.or.null }

bbl.nnr }

{ series empty\$

{ "there's a number but no series in " cite\$ * warning\$

```
1596
                               %new.dblslash
            1597
            1598
                               new.sentence
            1599
                               series
                               bbl.nr
            1600
                               tie.or.space.connect}
            1601
                           if$
            1602
            1603
                           number tie.or.space.connect
            1604
            1605
                       if$
            1606
                    {
                       "" }
            1607
                  if$
            1608
            1609 }
            1610
     is.num
            1611 FUNCTION {is.num}
            1612 { chr.to.int$
            1613 duplicate$ "0" chr.to.int$ < not
            1614 swap$ "9" chr.to.int$ > not and
            1615 }
            1616
extract.num
            1617 FUNCTION {extract.num}
            1618 { duplicate$ 't :=
            1619 ""''s :=
            1620 { t empty$ not }
                 { t #1 #1 substring$
            1621
                    t #2 global.max$ substring$ 't :=
            1622
                    duplicate$ is.num
            1623
                       { s swap$ * 's := }
            1624
                       { pop$ "" 't := }
            1625
            1626
                    if$
            1627
            1628
                 while$
                  s empty$
            1629
            1630
                    'skip$
            1631
                    { pop$ s }
            1632 if$
            1633 }
            1634
            1635 (*debug)
    eng.ord
            1636 FUNCTION {eng.ord}
            1637 { duplicate$ "1" swap$ *
            1638  #-2  #1  substring$ "1" =
                     { bbl.th * }
            1639
                      { duplicate$ #-1 #1 substring$
            1640
                        duplicate$ "1" =
            1641
```

```
{ pop$ bbl.st * }
                 1642
                               { duplicate$ "2" =
                 1643
                                   { pop$ bbl.nd * }
                 1644
                                   f "3" =
                 1645
                                        { bbl.rd * }
                 1646
                                        { bbl.th * }
                 1647
                                     if$
                 1648
                 1649
                 1650
                                 if$
                 1651
                             if$
                 1652
                 1653
                          }
                        if$
                 1654
                 1655 }
                 1656 (/debug)
                 1657
convert.edition
                 1658 FUNCTION {convert.edition}
                 1659 { edition
                 1660 % edition extract.num "l" change.case$ 's :=
                 1661 % s "first" = s "1" = or
                          { bbl.first 't := }
                 1662 %
                          { s "second" = s "2" = or
                 1663 %
                 1664 %
                               { bbl.second 't := }
                               { s "third" = s "3" = or
                 1665 %
                 1666 %
                                   { bbl.third 't := }
                                   { s "fourth" = s "4" = or
                 1667 %
                                        { bbl.fourth 't := }
                 1668 %
                                        { s "fifth" = s "5" = or
                 1669 %
                 1670 %
                                            { bbl.fifth 't := }
                 1671 %
                                            { s #1 #1 substring$ is.num
                 1672 %
                                                { s eng.ord 't := }
                                                { edition 't := }
                 1673 %
                 1674 %
                                              if$
                                            }
                 1675 %
                                          if$
                 1676 %
                 1677 %
                                       }
                 1678 %
                                     if$
                 1679 %
                                   }
                                 if$
                 1680 %
                               }
                 1681 %
                             if$
                 1682 %
                 1683 %
                 1684 %
                 1685 %
                 1686 }
                 1687
 format.edition
                 1688 FUNCTION {format.edition}
```

```
1689 { edition empty$
                       { "" }
                          { output.state mid.sentence =
                                   { convert.edition "l" change.case$ " " * bbl.edition * }
                  1692 (!utf8)
                  1693 (!utf8)
                                    { convert.edition "t" change.case$ " " * bbl.edition * }
                                   { convert.edition " " * bbl.edition * }
                  1694 (utf8)
                                   { convert.edition " " * bbl.edition * }
                  1695 (utf8)
                  1696
                            if$
                  1697
                  1698
                       if$
                  1699 }
                  1700
                  1701 INTEGERS { multiresult }
multi.page.check
                  1703 FUNCTION {multi.page.check}
                  1704 { 't :=
                  1705 #0 'multiresult :=
                  1706
                          { multiresult not
                  1707
                            t empty$ not
                  1708
                            and
                  1709
                          }
                  1710
                          { t #1 #1 substring$
                  1711
                            duplicate$ "-" =
                            swap$ duplicate$ "," =
                  1712
                            swap$ "+" =
                 1713
                 1714
                            or or
                              { #1 'multiresult := }
                 1715
                              { t #2 global.max$ substring$ 't := }
                  1716
                  1717
                            if$
                  1718
                          }
                  1719
                       while$
                      multiresult
                  1720
                  1721 }
                  1722
    format.pages
                  1723 %%FUNCTION {format.pages}
                  1724 \%{ pages empty$
                            { "" }
                  1725 %%
                  1726 %%
                            { pages multi.page.check
                  1727 %%
                                { bbl.ppages pages n.dashify tie.connect }
                  1728 %%
                                { bbl.ppage pages tie.connect }
                  1729 %%
                              if$
                  1730 %%
                            }
                  1731 %% if$
                  1732 %%}
                  1733 FUNCTION {format.pages}
                  1734 { eid empty$
                  1735
                          {
```

```
{ "" }
                   1737
                   1738
                               { pages multi.page.check
                                    { bbl.ppages pages n.dashify tie.connect }
                   1739
                                    { bbl.ppage pages tie.connect }
                   1740
                                  if$
                   1741
                               }
                   1742
                   1743
                             if$
                   1744
                           { eid multi.page.check
                   1745
                               { bbl.ppages eid n.dashify tie.connect }
                   1746
                               { bbl.ppage eid tie.connect }
                   1747
                             if$
                   1748
                           }
                   1749
                   1750
                         if$
                   1751 }
                   1752
format.pages.page
                   1753 %%FUNCTION {format.pages.page}
                   1754 %%{ pages empty$
                   1755 %%
                             { pagetotal empty$
                               { "" }
                   1756 %%
                                { pagetotal bbl.pages tie.connect }
                   1757 %%
                   1758 %%
                             if$}
                   1759 %%
                             { format.pages}
                   1760 %% if$
                   1761 %%}
                   1762 FUNCTION {format.pages.page}
                   1763 { eid empty$
                   1764
                           { pages empty$
                   1765
                               { pagetotal empty$
                   1766
                                    { "" }
                   1767
                                    { pagetotal bbl.pages tie.connect }
                                  if$
                   1768
                   1769
                   1770
                                { format.pages}
                   1771
                             if$
                   1772
                           { format.pages }
                   1773
                         if$
                   1774
                   1775 }
                   1776
mat.vol.num.pages
                   1777 FUNCTION {format.vol.num.pages}
                   1778 { volume field.or.null
                   1779
                         number empty$
                   1780
                           'skip$
                   1781
                              ", no." number tie.or.space.connect *
                   1782
```

pages empty\$

1736

```
volume empty$
                  1783
                               { "there's a number but no volume in " cite$ * warning$ }
                  1784
                  1785
                               'skip$
                  1786
                             if$
                           }
                  1787
                         if$
                  1788
                         pages empty$
                  1789
                  1790
                           'skip$
                  1791
                           { duplicate$ empty$
                  1792
                               { pop$ format.pages }
                               { ": " * pages n.dashify * }
                  1793
                  1794
                             if$
                  1795
                           }
                        if$
                  1796
                  1797 }
                  1798
   format.volume
                  1799 FUNCTION {format.volume}
                  1800 { volume empty$
                          { "" }
                           { bbl.vvol volume tie.or.space.connect }
                  1803
                        if$
                  1804 }
                  1805
   format.number
                  1806 FUNCTION {format.number}
                  1807 { number empty$
                          { "" }
                  1808
                           { bbl.nr number tie.or.space.connect }
                  1809
                  1810
                        if$
                  1811 }
                  1812
                  1813 (*debug)
mat.chapter.pages
                  1814 FUNCTION {format.chapter.pages}
                  1815 { chapter empty$
                           'format.pages
                  1816
                           { type empty$
                  1817
                               { bbl.chapter }
                  1818
                               { type "1" change.case$ }
                  1819
                  1820
                             if$
                  1821
                             chapter tie.or.space.connect
                  1822
                             pages empty$
                  1823
                               'skip$
                               { ", " * format.pages * }
                  1824
                  1825
                             if$
                           }
                  1826
                  1827 if$
                  1828 }
```

```
1829 (/debug)
                  1830
 empty.misc.check
                  1831 FUNCTION {empty.misc.check}
                  1832 { author empty$ title empty$ howpublished empty$
                        month empty$ year empty$ note empty$
                  1834
                        and and and and
                        key empty$ not and
                  1835
                           { "all relevant fields are empty in " cite$ * warning$ }
                  1836
                  1837
                           'skip$
                  1838
                        if$
                  1839 }
                  1840
ormat.thesis.type
                  1841 %FUNCTION {format.thesis.type}
                  1842 %{ type empty$
                  1843 %
                            'skip$
                  1844 %
                            { pop$
                  1845 %%<!utf8>
                                      bbl.thesis.type "t" change.case$
                  1846 %%<utf8>
                                     bbl.thesis.type
                  1847 %
                           }
                  1848 % if$
                  1849 %}
                  1850 FUNCTION {format.thesis.type}
                  1851 { type empty$
                           'skip$
                  1852
                  1853
                           { pop$
                  1854
                             bbl.thesis.type
                  1855
                  1856
                        if$
                  1857 }
                    Function to format report type and number.
chrep.type.number
                  1858 %FUNCTION {format.techrep.type.number}
                  1859 %{ type empty$
                  1860 %
                            { bbl.techreport }
                  1861 %
                            'type
                  1862 % if$
                  1863 % number empty$
                                   { "t" change.case$ }
                  1864 %%<!utf8>
                                   { "" }
                  1865 %%<utf8>
                  1866 %
                            { number tie.or.space.connect }
                  1867 % if$
                  1868 %}
                  1869
                  1870 FUNCTION {format.techreport.type}
                  1871 { type empty$
                  1872
                         { bbl.techreport }
                  1873
                          'type
                  1874
                        if$
```

```
1875 }
1876
```

author.before

Declare the function author.before to format list of authors in heading of a bibliographic record. If the number of authors is 4 or larger, some styles skip the list of authors in the beginning of the bibliographic record, while other styles always print that list. So, we need two version of author.before.

First version is used if .bst style is compiled without option long. It skips authors if their number is greater than or equal to 4 or if the author field is empty. Note that GOST requires for a long list of authors to be reduced. Hence this first version is preferable. Note also that format.names cuts list of names to 4 person at most in case if modern option is used. and format.authors just emphasizes format.names.

```
1877 (*!long)
1878 FUNCTION {author.before}
1879 {
      author empty$
1880
         'skip$
1881
1882
         {author num.names$ #4 <
           {format.authors output
1883
1884
            new.sentence}
1885
           'skip$
         if$}
1886
1887
      if$
1888 }
1889 (/!long)
```

Second version is used if .bst style is compiled with the option long. It skips only if the author field is empty.

```
1890 (*long)
1891 FUNCTION {author.before}
1892 €
1893
       author empty$
1894
         'skip$
         { format.authors output
1895
1896
           new.sentence
1897
      if$
1898
1899 }
1900 (/long)
1901
```

bookauthor.before

There are also 2 version of the function bookauthor.before. Not used anymore!

```
1902 %%<*!long>
1903 %%FUNCTION {bookauthor.before}
1904 %%{
1905 %% bookauthor empty$
1906 %% 'skip$
1907 %% {bookauthor num.names$ #4 <
1908 %% {format.bookauthors output
1909 %% new.sentence}
1910 %% 'skip$
```

```
1911 %%
          if$}
1912 %% if$
1913 %%}
1914 %%</!long>
1915 %%<*long>
1916 %%FUNCTION {bookauthor.before}
1917 %%{
1918 %%
        bookauthor empty$
1919 %%
           'skip$
1920 %%
          { format.bookauthors output
1921 %%
             new.sentence
1922 %%
1923 %% if$
1924 %%}
1925 %%</long>
1926
```

author.after

Functions author.after and bookauthor.after also have by 2 versions. They are used to write authors list after the title followed by a slash. In modern styles, compiled with option modern, the list of authors is always cut to at most 4 persons. The cut is performed first by format.names.rev, which is called by format.authors.after. For old styles, author.after just outputs formatted string whereas for new style it skips the string if the number of authors exceeds 3 (and author list is not printed before the title).

```
1927 (*!modern)
1928 FUNCTION {author.after}
1929 {
      author empty$
1930
1931
         'skip$
         {format.authors.after output
1932
            new.semicolon }
1933
1934
      if$
1935 }
1936 (/!modern)
1937 (*modern)
1938 (*!long)
1939 FUNCTION {author.after}
1940 {
1941
      author empty$
1942
         'skip$
         {author num.names$ #3 >
1943
           {format.authors.after output
1944
            new.semicolon }
1945
           'skip$
1946
         if$}
1947
1948
      if$
1949 }
1950 (/!long)
1951 (*long)
1952 FUNCTION {author.after} { }
1953 (/long)
```

```
1955
                      This function is used only in inbook entry. It always cuts list to 4 persons since format.bookauthors.after
bookauthor.after
                    1956 FUNCTION {bookauthor.after}
                    1957 {
                          bookauthor empty$
                    1958
                    1959
                             'skip$
                    1960
                             {format.bookauthors.after output
                                new.semicolon }
                    1961
                    1962
                          if$
                    1963 }
                    1964
rganization.after
                    1965 FUNCTION {editor.organization.after}
                    1966 {
                          compiler empty$
                    1967
                    1968
                            {}
                    1969
                            { format.compiler.after output
                    1970
                            new.semicolon
                            }
                    1971
                    1972
                          if$
                          editor empty$
                    1973
                    1974
                    1975
                            { format.editors.after output
                            new.semicolon
                    1976
                            }
                    1977
                          if$
                    1978
                          organization empty$
                    1979
                    1980
                            {}
                             {organization output
                    1981
                    1982
                            new.semicolon
                            }
                    1983
                          if$
                    1984
                    1985 }
                    1986
       format.url
                    1987 FUNCTION {format.url}
                    1988 { url empty$
                            { "" }
                    1989
                    1990
                    _{1991} \ \langle !(\mathsf{modern} \mid \mathsf{strict}) \rangle
                                                 "\BibUrl{ " url * "}" *
                                              bbl.url ": \BibUrl{" * url * "}" *
                    1992 (modern | strict)
                               urldate empty$
                    1993
                                 { "" }
                    1994
                                 { " (" bbl.urldate * ": " * urldate * ")" * }
                    1995
                    1996
                               if$ *
```

1954 (/modern)

1997

```
1998
                     if$
               1999 }
               2000
   output.url
               2001 FUNCTION {output.url}
               2002 {
                     url empty$
               2003
                        'skip$
               2004
                        { format.url output }
               2005
               2006
               2007 }
               2008
format.annote
               2009 FUNCTION {format.annote}
               2010 { annote empty$
               2011
                       { "" }
               2012 { after.sentence 'output.state :=
                     "\BibAnnote{" annote add.period$ * "}" *
               2014 }
               2015
                     if$
               2016 }
               2017
  format.isbn
                 Do we really need to provide electronic search for ISNB?
               2018 FUNCTION {format.isbn}
               2019 {
               2020
                     isbn empty$
                       { "" }
               2021
               2022
                        { "ISBN:~\href{http://isbndb.com/search-all.html?kw=" isbn *
                          "}{" * isbn * "}" *
               2023
               2024
                     if$
               2025
               2026 }
               2027
```

add.doi The Digital Object Identifier (DOI) System is for identifying content objects in the digital environment. DOI names are assigned to any entity for use on digital networks. They are used to provide current information, including where they (or information about them) can be found on the Internet. Information about a digital object may change over time, including where to find it, but its DOI name will not change.

Function add.doi embraces last string in stack into hyperlink that links it to specified doi identificator at http://dx.doi.org/web-site.

```
2035 if$
2036 }
2037 if$
2038 }
2039 \langle \text{eprint} \rangle

If .bst style is compiled without eprint option, we just ignore doi field.
2040 \langle *!eprint \rangle
2041 FUNCTION \{add.doi} \{ \}
2042 \langle /!eprint \rangle
2043
```

add.media

New in version 1.2. Adds media field if strict options is in effect. If the media field is empty add.media prints a value based on the type field. If the type is also empty add.media prints equivalent of the word text in current language.

```
2044 (*!strict)
2045 FUNCTION {add.media}
2046 { duplicate$ empty$
         'skip$
2047
         { media empty$
2048
2049
              'skip$
             { " " * bbl.media enclose.square.brackets * }
2050
2051
           if$
2052
      if$
2053
2054 }
2055 (/!strict)
2056 (*strict)
2057 FUNCTION {add.media}
2058 { duplicate$ empty$
2059
         'skip$
         { media empty$
2060
             { " " * bbl.media.text enclose.square.brackets * }
2061
             { " " * bbl.media enclose.square.brackets * }
2062
2063
           if$
         }
2064
      if$
2065
2066 }
2067 (/strict)
2068
```

2.5 Electronic Publishing Information

The biblatex package provides three fields for electronic publishing information: eprint, eprinttype, and eprintclass. The eprint field is a verbatim field similar to doi which holds the identifier of the item. The eprinttype field holds the resource name, i. e., the name of the site or electronic archive. Optional eprintclass field is intended for additional information specific to the resource indicated by the eprinttype field. This could be a section, a path, classification information, etc. If the eprinttype field is available, the standard styles will use it as a literal label. In the following example, they would print "Resource: identifier" rather than the generic "eprint: identifier":

```
eprint = {identifier},
eprinttype = {Resource},
```

format.eprint

2111

The electronic identifier of an online publication. This is roughly comparable to a doi but specific to a certain archive, repository, service, or system. Also see eprinttype and eprintclass. This function should use url. TO BE DONE YET.

```
2069 (*eprint)
2070 %FUNCTION {format.eprint}
2071 %{ eprint empty$
       { "" }
2072 %
2073 \%
        { eprintclass empty$
           { " \href{http://arxiv.org/abs/" eprint * "}" * "{" * eprint * "}" * }
2074 %
           { eprinttype empty$
2075 %
               { " \href{http://arxiv.org/abs/" eprint * "}" *
2076 %
                "{" * eprintclass * "/" * eprint * "}" *
2077 %
2078 %
               }
               { " href{http://arxiv.org/abs/" eprint * "}" *
2079 %
                "{" * eprinttype * ":" * eprintclass * "/" * eprint * "}" *
2080 %
               }
2081 %
2082 %
           if$}
2083 %
        if$}
2084 %if$}
2085
2086 %FUNCTION {format.eprint}
2087 %{ eprint empty$
        { "" }
2088 %
2089 %
        { eprinttype empty$
2090 %
            { "" }
             { eprinttype "~: " *}
2091 %
2092 %
          if$
2093 %
          eprintclass empty$
2094 %
            { }
             { eprintclass * "/" *}
2095 %
2096 %
         if$
         eprint *
2097 %
2098 %
        }
2099 % if$
2100 %
       url empty$
2101 %
2102 %
         { "\href{" url * "}{" * swap$ * "}" *}
2103 %
       if$
2104 %}
2105
2106 FUNCTION {format.eprint}
2107 { eprint empty$
       { "" }
2108
2109
       { eprinttype empty$
2110
           { "" }
           { eprinttype "~: " *}
```

```
if$
                  2112
                  2113
                            eprintclass empty$
                  2114
                             { }
                              { eprintclass * "/" *}
                  2115
                            if$
                  2116
                            url empty$
                  2117
                            { eprint * }
                  2118
                             { "\href{" * url * "}{" * eprint * "}" *}
                  2119
                  2120
                  2121
                          }
                  2122
                        if$
                  2123 }
                  2124
                  2125 FUNCTION {output.eprint.url}
                  2126 {
                  2127
                        eprint empty$
                          { format.url output }
                  2128
                          { format.eprint output }
                  2129
                  2130 if$
                  2131 }
                  2132
                  2133 (/eprint)
                  2134
                  2135 (*!eprint)
                  2136 FUNCTION {output.eprint.url}
                  2137 {
                           format.url output
                  2138
                  2139 }
                  2140 (/!eprint)
                  2141
                       Functions added in v1.2f to format patent entry (thanks to Stanislav Kruchinin).
       add.number
                  2142 FUNCTION {add.number}
                  2143 { duplicate$ empty$
                          { "" }
                           { bbl.nr swap$ tie.or.space.connect }
                  2146 if$
                  2147 }
                  2148
ormat.type.number
                  2149 FUNCTION {format.type.number}
                  2150 {
                        type empty$
                          { "" }
                  2152
                  2153
                  2154
                            number empty$
                             { "" }
                  2155
                             { type number tie.or.space.connect }
                  2156
                  2157
                           if$
```

```
2160 }
                   2161
ormat.requestdate
                   2162 FUNCTION {format.requestdate}
                   2163 { requestdate empty$
                           { "" }
                   2164
                           { bbl.req requestdate tie.or.space.connect }
                   2165
                   2166
                         if$
                   2167 }
                   2168
t.publicationdate
                   2169 FUNCTION {format.publicationdate}
                   2170 { publicationdate empty$
                           { "" }
                   2171
                   2172
                           { bbl.publ publicationdate tie.or.space.connect }
                   2173
                         if$
                   2174 }
                   2175
rmat.prioritydate
                   2176 FUNCTION {format.prioritydate}
                   2177 { prioritydate empty$
                           { "" }
                   2178
                           { bbl.priority prioritydate tie.or.space.connect }
                   2179
                         if$
                   2180
                   2181 }
                   2182
```

}

if\$

2158 2159

2.6 Entry types

Text below in this section is borrowed from biblatex manual. Not every field listed below is actually supported by GOST styles. So description below should be considered as a goal or a feature request.

The lists below indicate the fields supported by each entry type. Note that the mapping of fields to an entry type is ultimately at the discretion of the bibliography style. The lists below therefore serve two purposes. They indicate the fields supported by the standard styles which ship with this package and they also serve as a model for custom styles. Note that the required fields are not strictly required in all cases. The fields marked as optional are optional in a technical sense. Bibliographical formatting rules usually require more than just the required fields. The standard styles will generally not perform any formal validity checks, but custom styles may do so. Generic fields like abstract and annotation or label and shorthand are not included in the lists below because they are independent of the entry type.

2.6.1 Regular Types

An article in a journal, magazine, newspaper, or other periodical which forms a self-contained unit with its own title. The title of the periodical is given in the journaltitle field. If the issue has its own

title in addition to the main title of the periodical, it goes in the issuetitle field. Note that editor and related fields refer to the journal while translator and related fields refer to the article.

Required fields: author, title, journaltitle, year/date.

Optional fields: translator, annotator, commentator, subtitle, titleaddon, editor, editora, editorb, editorc, journalsubtitle, issuesubtitle, language, origlanguage, series, volume, number, eid, issue, month, pages, version, note, issn, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2183 FUNCTION {article}
2184 {
      output.bibitem
2185
2186
      author.before
2187 (natbib) author format.key output
      format.title add.media "title" output.check
2188
2189
      new.slash
      author.after
2190
      new.dblslash
2191
      journal emphasize add.doi "journal" output.check % new in v.2
2192
      new.block
2193
      format.date "year" output.check
2194
2195
      new.block
      format.volume output
2196
      format.number output
2197
2198
      new.block
2199
      format.pages.page output
      new.block
2200
2201
      note output
2202
      new.sentence
2203 % format.url output
2204
      output.eprint.url
      format.annote output
2205
2206
      fin.entry
2207 }
```

A single-volume book with one or more authors where the authors share credit for the work as a whole. In biblatex, this entry type also covers the function of the @inbook type of traditional BibTeX.

Required fields: author, title, year/date.

Optional fields: editor, editora, editorb, editorc, translator, annotator, commentator, introduction, foreword, afterword, subtitle, titleaddon, maintitle, mainsubtitle, maintitleaddon, language, origlanguage, volume, part, edition, volumes, series, number, note, publisher, location, isbn, chapter, pages, pagetotal, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2209 FUNCTION {book}
2210 {
2211 output.bibitem
2212 author.before
2213 ⟨natbib⟩ author format.key output
2214 format.btitle add.doi add.media "title" output.check
2215 new.slash
```

```
2216 author.after
2217 editor.organization.after
2218 new.sentence
2219 format.number.series output
2220 new.block
2221 format.edition output
2222
     new.block
2223
      output.address.publisher
2224
     format.date "year" output.check
2225
     new.block
2226 format.bvolume output
2227 new.block
2228 format.pages.page output
2229 new.block
2230 (eprint) format.isbn output
2231 (eprint) new.block
2232 note output
2233 new.sentence
2234 % format.url output
2235 output.eprint.url
2236
     format.annote output
2237
     fin.entry
2238 }
```

A book-like work without a formal publisher or sponsoring institution. Use the field howpublished to supply publishing information in free format, if applicable. The field type may be useful as well. Required fields: author/editor, title, year/date.

Optional fields: subtitle, titleaddon, language, howpublished, type, note, location, chapter, pages, pagetotal, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2240 FUNCTION {booklet}
2241 {
2242 output.bibitem
2243
     author.before
2244 (natbib) author format.key output
2245 format.title add.doi add.media "title" output.check
2247 author.after
2248 editor.organization.after
2249
     new.block
2250
     howpublished output
2251
     address.or.location output
2252
     format.date "year" output.check
2253
     new.block
2254
     note output
2255 new.sentence
2256 % format.url output
2257 output.eprint.url
2258 format.annote output
2259 fin.entry
```

```
2260 }
2261
```

inbook A part of a book which forms a self-contained unit with its own title. Note that the profile of this entry type is different from standard BibTeX.

Required fields: author, title, booktitle, year/date.

Optional fields: bookauthor, editor, editora, editorb, editorc, translator, annotator, commentator, introduction, foreword, afterword, subtitle, titleaddon, maintitle, mainsubtitle, maintitleaddon, booksubtitle, booktitleaddon, language, origlanguage, volume, part, edition, volumes, series, number, note, publisher, location, isbn, chapter, pages, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2262 FUNCTION {inbook}
2263 {
      output.bibitem
2264
      author.before
2266 (natbib) author format.key output
      format.btitle add.doi add.media "title" output.check
2267
      new.slash
2268
      author.after
2269
      new.dblslash
2270
2271 % bookauthor.before
      booktitle "booktitle" output.check
2272
      new.slash
2273
2274
      bookauthor.after
      editor.organization.after
2275
      new.block
2276
      format.edition output
2277
2278
      new.block
2279
      format.number.series output
2280
      new.sentence
      output.address.publisher
2281
     format.date "year" output.check
2282
2283
     new.block
2284
     format.bvolume output
     new.block
2285
2286
     format.pages.page output
2287
     new.block
2288 \langle eprint \rangle format.isbn output
2289 (eprint) new.block
     note output
2290
2291
     new.sentence
2292 % format.url output
2293
      output.eprint.url
      format.annote output
2294
2295
      fin.entry
2296 }
2297
```

 ${\tt incollection}$

A contribution to a collection which forms a self-contained unit with a distinct author and title. The author refers to the title, the editor to the booktitle, i. e., the title of the collection.

Required fields: author, editor, title, booktitle, year/date.

Optional fields: editora, editorb, editorc, translator, annotator, commentator, introduction, foreword, afterword, subtitle, titleaddon, maintitle, mainsubtitle, maintitleaddon, booksubtitle, booktitleaddon, language, origlanguage, volume, part, edition, volumes, series, number, note, publisher, location, isbn, chapter, pages, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2298 FUNCTION {incollection}
2299 {
2300
     output.bibitem
      author.before
2301
2302 (natbib) author format.key output
2303
     new.sentence
     format.title add.doi add.media "title" output.check
2304
2305
     new.slash
2306
     author.after
2307
     new.dblslash
     booktitle "booktitle" output.check
2308
2309
     new.slash
2310
     editor.organization.after
2311
     new.block
2312
     output.address.publisher
2313
     format.date "year" output.check
2314
     new.block
2315 format.bvolume output
2316 format.number.series output
2317 new.block
2318 format.pages.page output
2319 new.block
2320 note output
2321 new.sentence
2322 % format.url output
2323 output.eprint.url
2324
     format.annote output
2325
     fin.entry
2326 }
2327
```

proceedings

A single-volume conference proceedings. This type is very similar to @collection. It supports an optional organization field which holds the sponsoring institution. The editor is omissible.

Required fields: editor, title, year/date.

Optional fields: subtitle, titleaddon, maintitle, mainsubtitle, maintitleaddon, eventtitle, eventdate, venue, language, volume, part, volumes, series, number, note, organization, publisher, location, month, isbn, chapter, pages, pagetotal, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2328 FUNCTION {proceedings}
2329 {
2330 output.bibitem
2331 ⟨natbib⟩ editor format.key output
2332 format.btitle add.doi add.media "title" output.check
2333 new.slash
2334 editor.organization.after
```

```
2335 new.block
2336 format.bvolume output
2337 format.number.series output
2338 output.address.publisher
2339 format.date "year" output.check
2340 new.block
2341 note output
2342
     new.sentence
2343 % format.url output
2344 output.eprint.url
     format.annote output
2345
2346 fin.entry
2347 }
2348
```

 ${\tt inproceedings}$

An article in a conference proceedings. This type is similar to @incollection. It supports an optional organization field.

Required fields: author, editor, title, booktitle, year/date.

Optional fields: subtitle, titleaddon, maintitle, mainsubtitle, maintitleaddon, booksubtitle, booktitleaddon, eventtitle, eventdate, venue, language, volume, part, volumes, series, number, note, organization, publisher, location, month, isbn, chapter, pages, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2349 FUNCTION {inproceedings}
2350 { output.bibitem
2351
     author.before
2352 \langle natbib \rangle author format.key output
2353 new.sentence
2354 format.title add.doi add.media "title" output.check
2355
     new.slash
     author.after
2356
2357
     new.dblslash
2358
     booktitle "booktitle" output.check
2359 new.slash
2360 editor.organization.after
2361 new.block
2362 format.bvolume output
2363 format.number.series output
2364 new.block
2365 % address empty$
2366 %
         { publisher output
           format.date "year" output.check
2367 %
2368 %
         }
        { address output.nonnull
2369 %
2370 %
          new.colon
2371 %
           publisher output
2372 %
           format.date "year" output.check
2373 %
         }
2374 % if$
2375
     output.address.publisher
      format.date "year" output.check
```

```
2377
     new.block
2378
     format.pages.page output
     new.block
2379
2380 note output
     new.sentence
2381
2382 % format.url output
2383 output.eprint.url
     format.annote output
2385
     fin.entry
2386 }
2387
```

manual Technical or other documentation, not necessarily in printed form. The author or editor is omissible. Required fields: author/editor, title, year/date.

Optional fields: subtitle, titleaddon, language, edition, type, series, number, version, note, organization, publisher, location, isbn, chapter, pages, pagetotal, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2388 FUNCTION {manual}
2389 { output.bibitem
      author empty$
2390
2391
        { organization empty$
2392
             'skip$
             { organization output.nonnull
2393
2394
               address output
2395
          if$
2396
        }
2397
        { format.authors output.nonnull }
2398
2399
2400 (natbib) author format.key output
      new.block
2401
      format.btitle add.doi add.media "title" output.check
2402
      author empty$
2403
2404
        { organization empty$
2405
               address new.block.checka
2406
2407
               address output
2408
2409
             'skip$
2410
          if$
        }
2411
2412
          organization address new.block.checkb
2413
          organization output
2414
          address output
2415
        }
2416
2417
      if$
2418
      format.edition output
      format.date "year" output.check
2419
2420
      new.block
```

```
2421 note output
2422 new.sentence
2423 % format.url output
2424 output.eprint.url
2425 format.annote output
2426 fin.entry
2427 }
2428
```

patent

A patent or patent request. The number or record token is given in the number field. Use the type field to specify the type and the location field to indicate the scope of the patent, if different from the scope implied by the type. Note that the location field is treated as a key list with this entry type.

Required fields: author, title, number, year/date.

Optional fields: holder, subtitle, titleaddon, type, version, location, note, date, month, year, addendum, pubstate, doi, eprint, eprint class, eprint type, url, urldate.

```
2429 FUNCTION {patent}
2430 {
2431 output.bibitem
2432 % title output.nonnull
2433 title add.media output.nonnull
2434 % add.blank
2435 % media enclose.square.brackets output % S.Kruchinin's version
2436 new.colon
2437
     format.type.number output
2438
     add.blank
     address.or.location output
2439
2440
     new.colon
2441
     ipc output
     new.slash
2442
2443
     format.authors.after "author" output.check
     add.blank
2444
2445
      authorcountry enclose.round.brackets output.nonnull
2446 (natbib) author format.key output
2447 new.semicolon
2448 holder output.nonnull
2449 new.semicolon
2450 credits output.nonnull
2451 new.block
     requestnumber add.number output
2452
2453
     new.semicolon
2454
     format.requestdate output
2455
     new.semicolon
2456
     format.publicationdate output
2457
     publication output
     new.semicolon
2458
     format.prioritydate output
2459
2460
     prioritynumber output
2461
     prioritycountry enclose.round.brackets output
2462
     new.block
```

```
note output
2463
2464
      new.sentence
2465
      output.url
      format.annote output
2466
2467
      new.block
2468
      pagetotal output
2469
      fin.entry
2470 }
2471
```

misc A fallback type for entries which do not fit into any other category. Use the field howpublished to supply publishing information in free format, if applicable. The field type may be useful as well. author, editor, and year are omissible.

Required fields: author/editor, title, year/date.

```
2472 FUNCTION {misc}
2473 { output.bibitem
     format.authors output
2475 (natbib) author format.key output
      title howpublished new.sentence.checkb
      format.title add.media output
2477
      howpublished new.block.checka
2478
      howpublished output
2479
2480
      new.block
      format.date "year" output.check
2481
2482
      new.block
2483
      note output
     new.sentence
2484
2485 % format.url output
2486 output.eprint.url
2487
      format.annote output
2488
      fin.entry
2489 }
2490
```

unpublished

A work with an author and a title which has not been formally published, such as a manuscript or the script of a talk. Use the fields howpublished and note to supply additional information in free format, if applicable.

Required fields: author, title, year/date.

Optional fields: subtitle, titleaddon, language, howpublished, note, location, isbn, date, month, year, addendum, pubstate, url, urldate

```
2491 FUNCTION {unpublished}
2492 { output.bibitem
     author.before
2493
2494 (natbib) author format.key output
      format.btitle "title" output.check
2495
      new.slash
2496
2497
      author.after
2498
      editor.organization.after
2499
      new.block
2500
      format.date "year" output.check
```

```
2501 new.block
2502 note "note" output.check
2503 new.sentence
2504 % format.url output
2505 output.eprint.url
2506 format.annote output
2507 fin.entry
2508 }
2509
```

online

thesis

An online resource. Author, editor, and year are omissible. This entry type is intended for sources such as web sites which are intrinsically online resources. Note that all entry types support the url field. For example, when adding an article from an online journal, it may be preferable to use the <code>@article</code> type and its url field.

Required fields: author/editor, title, year/date, url.

Optional fields: subtitle, titleaddon, language, version, note, organization, date, month, year, addendum, pubstate, urldate.

```
2510 FUNCTION {online}
            2511 { output.bibitem
                 format.authors output
            2513 (natbib) author format.key output
                 title howpublished new.sentence.checkb
            2515
                  format.title add.doi add.media "title" output.check
            2516 % howpublished new.block.checka
                 howpublished new.dblslash.checka
            2518 (!strict) howpublished output
            2519 (strict) howpublished enclose.square.brackets output
            2520
                 editor.organization.after
            2521
                 new.sentence
                  new.block
            2522
            2523
                  output.address.publisher
            2524
                 format.date output
            2525 new.block
            2526 % format.url output
            2527 output.eprint.url
            2528 new.sentence
            2529 note output
                 format.annote output
            2530
            2531
                 fin.entry
            2532 }
            2533
                   New in version 2012.02.15.
   internet
        www 2534 FUNCTION {internet}
                                      {online}
   webpage 2535 FUNCTION {www}
                                       {online}
ielectronic 2536 FUNCTION {webpage}
                                       {online}
            2537 FUNCTION {electronic} {online}
```

New in version 2012.02.02.

A thesis written for an educational institution to satisfy the requirements for a degree. Use the type field to specify the type of thesis.

Required fields: author, title, type, institution, year/date.

Optional fields: subtitle, titleaddon, language, note, location, month, isbn, chapter, pages, pagetotal, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate

```
2538 (*!(modern | strict))
2539 FUNCTION {thesis}
2540 { output.bibitem
2541 format.authors "author" output.check
2542 (natbib) author format.key output
2543 new.sentence
2544 format.btitle "title" output.check
2545 new.colon
2546 bbl.phdthesis format.thesis.type output.nonnull
2547 new.slash
2548 %institution "institution" output.check
2549 institution.or.school "institution/school" output.check
2550 new.block
2551
     output.address.publisher.date
2552 new.block
2553 format.pages.page output
2554 note output
2555 new.sentence
2556 format.url output
2557 format.annote output
2558 fin.entry
2559 }
2560 </!(modern | strict)>
2561 (*modern | strict)
2562 FUNCTION {thesis}
2563 { output.bibitem
2564 format.authors "author" output.check
2565 (natbib) author format.key output
2566 new.sentence
2567 format.btitle add.doi add.media "title" output.check
2568 new.colon
2569 %/type "type" output.check
2570 bbl.phdthesis format.thesis.type output.nonnull
2571 new.colon
2572 %%number output % code of the speciality
2573 specialitycode.or.number output % code of the speciality, new in v.1.2i
2574 new.colon
2575 titleaddon output % date of defence and approvement; new in v.1.2i
2576 new.slash
2577
     format.authors.after output
2578
     new.semicolon
2579
     %institution "institution" output.check
2580 institution.or.school "institution/school" output.check
2581 new.block
2582 output.address.publisher
2583 format.date "year" output.check
2584 new.block
```

```
2585 format.pages.page output
2586 new.block
2587 note output
2588 new.sentence
2589 % format.url output
2590 output.eprint.url
2591 format.annote output
2592 fin.entry
2593 }
2594 \/modern | strict\/
2595
```

report

New in version 2012.02.02.

A technical report, research report, or white paper published by a university or some other institution. Use the type field to specify the type of report. The sponsoring institution goes in the institution field.

Required fields: author, title, type, institution, year/date.

Optional fields: subtitle, titleaddon, language, number, version, note, location, month, isrn, chapter, pages, pagetotal, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```
2596 %FUNCTION {report}
2597 %{
2598 % output.bibitem
2599 % author.before
2600 % new.sentence
2601 % format.title add.doi add.media "title" output.check
2602 % new.colon
2603 %% format.techrep.type.number output.nonnull
2604 % type "type" output.check
2605 % new.slash
2606 % author.after
2607 % editor.organization.after
2608 % new.block
2609 % address output
2610 % new.colon
2611 \% institution "institution" output.check
2612 % format.date "year" output.check
2613 % new.block
2614 % note output
2615 % new.block
                                % v.2
2616 % format.pages.page output % v.2
2617 % new.sentence
2618 %% format.url output
2619 % output.eprint.url
2620 % format.annote output
2621 % fin.entry
2622 %}
2623 FUNCTION {report}
2624 {
2625 output.bibitem
2626 % author.before
```

```
2627 % new.sentence
2628 format.title add.doi add.media "title" output.check
2629 (natbib) title format.key output
2630 new.colon
2631 % format.techrep.type.number output.nonnull
2632 \% type "type" output.check
2633 % format.report.type.number "type" output.check
2634 type "type" output.check
2635
     new.colon
2636
     number output
2637
     new.slash
2638 %institution "institution" output.check
2639 institution.or.school "institution/school" output.check
2640 new.semicolon
2641 format.chief.after output % from editor field
2642 new.semicolon
2643 format.executor.after output % from author field
2644 new.block
2645 address.or.location output
2646
     new.colon
2647
     organization output
2648
     format.date "year" output.check
                              % v.2
2649
     new.block
2650
     format.pages.page output % v.2
     new.sentence % или new.block ?
2651
     output.eprint.url
2652
2653 new.block
2654 note output
2655 format.annote output
2656 fin.entry
2657 }
2658
```

2.6.2 Type Aliases

The entry types listed in this section are provided for backwards compatibility with traditional BibTeX styles. These aliases are resolved by BibTeX as the data is exported. Bibliography styles will see the entry type the alias points to, not the alias name. All unknown entry types are generally exported as @misc.

 ${\tt phdthesis}$

Similar to @thesis except that the type field is optional and defaults to the localized term 'PhD thesis'. You may still use the type field to override that.

```
2659 \langle *!(modern | strict) \rangle
2660 FUNCTION {phdthesis}
2661 { output.bibitem
2662 format.authors "author" output.check
2663 new.sentence
2664 format.btitle "title" output.check
2665 new.colon
2666 bbl.phdthesis format.thesis.type output.nonnull
2667 new.slash
```

```
2668 "%institution "institution" output.check
2669 institution.or.school "institution/school" output.check
2670 new.block
2671 output.address.publisher.date
2672 new.block
2673 format.pages.page output
2674 note output
2675
     new.sentence
2676
     format.url output
2677
     format.annote output
2678 fin.entry
2679 }
2680 </!(modern | strict)>
2681 (*modern | strict)
2682 FUNCTION {phdthesis}
2683 { output.bibitem
2684 format.authors "author" output.check
2685 \langle natbib \rangle author format.key output
2686 new.sentence
     format.btitle add.doi add.media "title" output.check
2687
2688
     new.colon
2689
      bbl.phdthesis format.thesis.type output.nonnull
2690
      new.colon
2691
      %%number output % code of the speciality
      specialitycode.or.number output % code of the speciality, new in v.1.2i
2692
2693 new.colon
2694 titleaddon output % date of defence and approvement; new in v.1.2i
2695 new.slash
2696 format.authors.after output
2697 new.semicolon
2698 %institution "institution" output.check
2699 institution.or.school "institution/school" output.check
2700 new.block
2701
     output.address.publisher
2702 format.date "year" output.check
2703 new.block
2704 format.pages.page output
2705 new.block
2706 note output
2707 new.sentence
2708 % format.url output
2709 output.eprint.url
2710 format.annote output
2711 fin.entry
2712 }
2713 (/modern | strict)
```

mastersthesis Similar to @thesis except that the type field is optional and defaults to the localized term 'Master's thesis'. You may still use the type field to override that.

```
2715 (*!(modern | strict))
```

```
2716 FUNCTION {mastersthesis}
2717 { output.bibitem
2718 format.authors "author" output.check
2719 (natbib) author format.key output
2720 new.sentence
2721 format.btitle "title" output.check
2722 new.colon
2723 bbl.mathesis format.thesis.type output.nonnull
2724 new.slash
2725 %institution "institution" output.check
2726 institution.or.school "institution/school" output.check
2727 new.block
2728 output.address.publisher.date
2729 new.block
2730 format.pages.page output
2731 note output
2732 new.sentence
2733 format.url output
2734 format.annote output
2735 fin.entry
2736 }
2737 \(\frac{\psi}{\text{(modern | strict)}}\)
2738 (*modern | strict)
2739 FUNCTION {mastersthesis}
2740 { output.bibitem
2741 format.authors "author" output.check
2742 (natbib) author format.key output
2743 new.sentence
2744 format.btitle add.doi add.media "title" output.check
2745 new.colon
2746 bbl.mathesis format.thesis.type output.nonnull
2747 new.colon
2749 specialitycode.or.number output % code of the speciality, new in v.1.2i
2750 new.colon
     titleaddon output % date of defence and approvement; new in v.1.2i
2751
2752 new.slash
2753 format.authors.after output
2754 new.semicolon
2755 %institution "institution" output.check
2756 institution.or.school "institution/school" output.check
2757 new.block
2758 output.address.publisher
2759 format.date "year" output.check
2760 new.block
2761 format.pages.page output
2762 new.block
2763 note output
2764 new.sentence
2765 % format.url output
```

```
2767 format.annote output
         2768 fin.entry
         2769 }
         2770 (/modern | strict)
         2771
           Similar to @thesis except that the type field is optional and defaults to the localized term 'Doctor's
docthesis
           of sciences thesis'. You may still use the type field to override that.
         2772 (*!(modern | strict))
         2773 FUNCTION {docthesis}
         2774 { output.bibitem
         2775 format.authors "author" output.check
         2776 \langle natbib \rangle author format.key output
         2777 new.sentence
         2778 format.btitle "title" output.check
         2779
               new.colon
         2780 bbl.docthesis format.thesis.type output.nonnull
         2781 new.slash
         2782 %institution "institution" output.check
         2783 institution.or.school "institution/school" output.check
         2784 new.block
         2785 output.address.publisher.date
         2786 new.block
         2787 format.pages.page output
         2788 note output
         2789 new.sentence
         2790 format.url output
         2791 format.annote output
         2792 fin.entry
         2793 }
         2794 (/!(modern | strict))
         2795 (*modern | strict)
         2796 FUNCTION {docthesis}
         2797 { output.bibitem
         2798 format.authors "author" output.check
         2799 (natbib) author format.key output
         2800 new.sentence
         2801 format.btitle add.doi add.media "title" output.check
         2802 new.colon
         2803 bbl.docthesis format.thesis.type output.nonnull
         2804 new.colon
         2805
               %%number output % code of the speciality
               specialitycode.or.number output \% code of the speciality, new in v.1.2i
         2806
         2807
               new.colon
         2808 titleaddon output % date of defence and approvement; new in v.1.2i
         2809 new.slash
         2810 format.authors.after output
         2811 new.semicolon
         2812 %institution "institution" output.check
         2813 institution.or.school "institution/school" output.check
```

2766 output.eprint.url

```
2814 new.block
           2815 output.address.publisher
          2816 format.date "year" output.check
          2817 new.block
           2818 format.pages.page output
          2819 new.block
           2820 note output
           2821
                new.sentence
           2822 % format.url output
           2823 output.eprint.url
           2824 format.annote output
           2825 fin.entry
           2826 }
           2827 (/modern | strict)
           2828
conference
           2829 FUNCTION {conference} { inproceedings }
                 TechReport is similar to @report except that the type field is optional and defaults to the
techreport
            localized term 'technical report'. You may still use the type field to override that.
           2831 %FUNCTION {techreport}
           2832 %{
           2833 % output.bibitem
           2834 % author.before
           2835 \% new.sentence
           2836 \% format.title add.doi add.media "title" output.check
           2837 % new.colon
           2838 % format.techrep.type.number output.nonnull
           2839 % new.slash
           2840 % author.after
           2841 % editor.organization.after
           2842 % new.block
           2843 % address output
          2844 % new.colon
           2845\ \% institution "institution" output.check
           2846 % format.date "year" output.check
           2847 % new.block
           2848 % note output
           2849 % new.block
                                            % v.2
           2850 % format.pages.page output % v.2
           2851\% new.sentence
           2852 %% format.url output
           2853 % output.eprint.url
           2854 % format.annote output
           2855 % fin.entry
           2856 %}
           2857
           2858 FUNCTION {techreport}
           2859 {
```

```
2860 output.bibitem
            2861 % author.before
            2862 % new.sentence
            2863 format.title add.doi add.media "title" output.check
            2864 (natbib) title format.key output
            2865 new.colon
            2866\ \% format.techrep.type.number output.nonnull
            2867 % type "type" output.check
            2868 % format.report.type.number "type" output.check
            2869 % type output
            2870 format.techreport.type output
            2871 new.colon
            2872 number output
            2873 new.slash
            2874 %institution "institution" output.check
            2875 institution.or.school "institution/school" output.check
            2876 new.semicolon
            2877 format.chief.after output % from editor field
            2878 new.semicolon
            2879 format.executor.after output % from author field
            2880 new.block
            2881
                  address.or.location output
                  new.colon
            2882
            2883 organization output
            2884 format.date "year" output.check
                                           % v.2
            2885 new.block
            2886 format.pages.page output % v.2
            2887 new.sentence % или new.block ?
            2888 output.eprint.url
            2889 new.block
            2890 note output
            2891 format.annote output
            2892 fin.entry
            2893 }
            2894
default.type
            2895 FUNCTION {default.type} { misc }
            2896
```

2.7 Month Abbreviations

Borrowed from merlin.mbs of package custom-bib. This is done for backward compatibility with standard .bst styles which are designed for English. The string in the definition of any month macro must coincide with that used in format.month function in the above.

```
2897 MACRO {jan} {"Jan."}
2898 MACRO {feb} {"Feb."}
2899 MACRO {mar} {"Mar."}
2900 MACRO {apr} {"Apr."}
2901 MACRO {may} {"May"}
```

```
2902 MACRO {jun} {"Jun."}
2903 MACRO {jul} {"Jul."}
2904 MACRO {aug} {"Aug."}
2905 MACRO {sep} {"Sep."}
2906 MACRO {oct} {"Oct."}
2907 MACRO {nov} {"Nov."}
2908 MACRO {dec} {"Dec."}
```

2.8 Journal Abbreviations

2.8.1 Physics and astronomy

Borrowed from physjour.mbs of package custom-bib.

```
2909 MACRO {aa}{"Astron. \& Astrophys."}
2910 MACRO {aasup}{"Astron. \& Astrophys. Suppl. Ser."}
2911 MACRO {aj} {"Astron. J."}
2912 MACRO {aph} {"Acta Phys."}
2913 MACRO {advp} {"Adv. Phys."}
2914 MACRO {ajp} {"Amer. J. Phys."}
2915 MACRO {ajm} {"Amer. J. Math."}
2916 MACRO {amsci} {"Amer. Sci."}
2917 MACRO {anofd} {"Ann. Fluid Dyn."}
2918 MACRO {am} {"Ann. Math."}
2919 MACRO {ap} {"Ann. Phys. (NY)"}
2920 MACRO {adp} {"Ann. Phys. (Leipzig)"}
2921 MACRO {ao} {"Appl. Opt."}
2922 MACRO {apl} {"Appl. Phys. Lett."}
2923 MACRO {app} {"Astroparticle Phys."}
2924 MACRO {apj} {"Astrophys. J."}
2925 MACRO {apjsup} {"Astrophys. J. Suppl."}
2926 MACRO {apss} {"Astrophys. Space Sci."}
2927 MACRO {araa} {"Ann. Rev. Astron. Astrophys."}
2928 MACRO {baas} {"Bull. Amer. Astron. Soc."}
2929 MACRO {baps} {"Bull. Amer. Phys. Soc."}
2930 MACRO {cmp} {"Comm. Math. Phys."}
2931 MACRO {cpam} {"Commun. Pure Appl. Math."}
2932 MACRO {cppcf} {"Comm. Plasma Phys. \& Controlled Fusion"}
2933 MACRO {cpc} {"Comp. Phys. Comm."}
2934 MACRO {cqg} {"Class. Quant. Grav."}
2935 MACRO {cra} {"C. R. Acad. Sci. A"}
2936 MACRO {fed} {"Fusion Eng. \& Design"}
2937 MACRO {ft} {"Fusion Tech."}
2938 MACRO {grg} {"Gen. Relativ. Gravit."}
2939 MACRO {ieeens} {"IEEE Trans. Nucl. Sci."}
2940 MACRO {ieeeps} {"IEEE Trans. Plasma Sci."}
2941 MACRO {ijimw} {"Interntl. J. Infrared \& Millimeter Waves"}
2942 MACRO {ip} {"Infrared Phys."}
2943 MACRO {irp} {"Infrared Phys."}
2944 MACRO {jap} {"J. Appl. Phys."}
2945 MACRO {jasa} {"J. Acoust. Soc. America"}
```

```
2946 MACRO {jcp} {"J. Comp. Phys."}
2947 MACRO {jchp} {"J. Chem. Phys."}
2948 MACRO {jetp} {"Sov. Phys.--JETP"}
2949 MACRO {jfe} {"J. Fusion Energy"}
2950 MACRO {jfm} {"J. Fluid Mech."}
2951 MACRO {jmp} {"J. Math. Phys."}
2952 MACRO {jne} {"J. Nucl. Energy"}
2953 MACRO {jnec} {"J. Nucl. Energy, C: Plasma Phys., Accelerators, Thermonucl. Res."}
2954 MACRO {jnm} {"J. Nucl. Mat."}
2955 MACRO {jpc} {"J. Phys. Chem."}
2956 MACRO {jpp} {"J. Plasma Phys."}
2957 MACRO {jpsj} {"J. Phys. Soc. Japan"}
2958 MACRO {jsi} {"J. Sci. Instrum."}
2959 MACRO {jvst} {"J. Vac. Sci. \& Tech."}
2960 MACRO {nat} {"Nature"}
2961 MACRO {nature} {"Nature"}
2962 MACRO {nedf} {"Nucl. Eng. \& Design/Fusion"}
2963 MACRO {nf} {"Nucl. Fusion"}
2964 MACRO {nim} {"Nucl. Inst. \& Meth."}
2965 MACRO {nimpr} {"Nucl. Inst. \& Meth. in Phys. Res."}
2966 MACRO {np} {"Nucl. Phys."}
2967 MACRO {npb} {"Nucl. Phys. B"}
2968 MACRO {nt/f} {"Nucl. Tech./Fusion"}
2969 MACRO {npbpc} {"Nucl. Phys. B (Proc. Suppl.)"}
2970 MACRO {inc} {"Nuovo Cimento"}
2971 MACRO {nc} {"Nuovo Cimento"}
2972 MACRO {pf} {"Phys. Fluids"}
2973 MACRO {pfa} {"Phys. Fluids A: Fluid Dyn."}
2974 MACRO {pfb} {"Phys. Fluids B: Plasma Phys."}
2975 MACRO {pl} {"Phys. Lett."}
2976 MACRO {pla} {"Phys. Lett. A"}
2977 MACRO {plb} {"Phys. Lett. B"}
2978 MACRO {prep} {"Phys. Rep."}
2979 MACRO {pnas} {"Proc. Nat. Acad. Sci. USA"}
2980 MACRO {pp} {"Phys. Plasmas"}
2981 MACRO {pop} {"Phys. Plasmas"}
2982 MACRO {ppcf} {"Plasma Phys. \& Controlled Fusion"}
2983 MACRO {phitrsl} {"Philos. Trans. Roy. Soc. London"}
2984 MACRO {prl} {"Phys. Rev. Lett."}
2985 MACRO {pr} {"Phys. Rev."}
2986 MACRO {physrev} {"Phys. Rev."}
2987 MACRO {pra} {"Phys. Rev. A"}
2988 MACRO {prb} {"Phys. Rev. B"}
2989 MACRO {prc} {"Phys. Rev. C"}
2990 MACRO {prd} {"Phys. Rev. D"}
2991 MACRO {pre} {"Phys. Rev. E"}
2992 MACRO {ps} {"Phys. Scripta"}
2993 MACRO {procrsl} {"Proc. Roy. Soc. London"}
2994 MACRO {rmp} {"Rev. Mod. Phys."}
2995 MACRO {rsi} {"Rev. Sci. Inst."}
```

```
2996 MACRO {science} {"Science"}
2997 MACRO {sciam} {"Sci. Am."}
2998 MACRO {sam} {"Stud. Appl. Math."}
2999 MACRO {st} {"Sky and Telesc."}
```

2.8.2 Supplementary Journal Names

Borrowed from suppjour.mbs of package custom-bib.

```
3000 MACRO {cjp} {"Czech. J. Phys."}
3001 MACRO {el} {"Europhys. Lett."}
3002 MACRO {en} {"Europhys. News"}
3003 MACRO {fujitsustj} {"FUJITSU Sci. Tech. J."}
3004 MACRO {ieeeed} {"IEEE Trans. Electron Devices"}
3005 MACRO {ieeeim} {"IEEE Trans. Instrum. Meas."}
3006 MACRO {ieeejqe} {"IEEE J. Quantum Electron."}
3007 MACRO {ieeem} {"IEEE Trans. Magn."}
3008 MACRO {ieeeptl} {"IEEE Photonic Technol. Lett."}
3009 MACRO {ieeeuffc} {"IEEE Trans. Ultrason., Ferroelect., Freq. Cont."}
3010 MACRO {jem} {"J. Electron. Mater."}
3011 MACRO {jes} {"J. Electrochem. Soc."}
3012 MACRO {jetplett} {"JETP Lett."}
3013 MACRO {jjap} {"Japan. J. Appl. Phys."}
3014 MACRO {jpha} {"J. Phys. A: Math. Gen."}
3015 MACRO {jphb} {"J. Phys. B: At. Mol. Opt. Phys."}
3016 MACRO {jphbold} {"J. Phys. B: At. Mol. Phys."}
3017 MACRO {jphc} {"J. Phys.: Condens. Matter"}
3018 MACRO {jphcold} {"J. Phys. C: Solid State Phys."}
3019 MACRO {jphd} {"J. Phys. D: Appl. Phys."}
3020 MACRO {jvsta} {"J. Vac. Sci. Technol. A"}
3021 MACRO {jvstb} {"J. Vac. Sci. Technol. B"}
3022 MACRO {me} {"Microelectron. Eng."}
3023 MACRO {necrd} {"NEC Res.{\&} Develop."}
3024 MACRO {pa} {"Physica A"}
3025 MACRO {pb} {"Physica B"}
3026 MACRO {pc} {"Physica C"}
3027 MACRO {pd} {"Physica D"}
3028 MACRO {procieee} {"Proc. IEEE"}
3029 MACRO {procspie} {"Proc. SPIE"}
3030 MACRO {pssa} {"Phys. Stat. Sol. A"}
3031 MACRO {pssb} {"Phys. Stat. Sol. B"}
3032 MACRO {rpp} {"Rep. Progr. Phys."}
3033 MACRO {sm} {"Synthet. Metal"}
3034 MACRO {sost} {"Solid State Technol."}
3035 MACRO {ss} {"Surf. Sci."}
3036 MACRO {ssc} {"Solid State Commun."}
3037 MACRO {sst} {"Semicond. Sci. Technol."}
3038 MACRO {suplatt} {"Superlatt. Microstr."}
3039 MACRO {sust} {"Supercond. Sci. Technol."}
3040 MACRO {znat} {"Z. Naturforsch."}
```

2.8.3 Optics

```
Borrowed from photjour.mbs.
```

```
3041 MACRO {appopt} {"Appl. Opt."}
3042 MACRO {bell}
                  {"Bell Syst. Tech. J."}
3043 MACRO {ell}
                   {"Electron. Lett."}
3044 MACRO {jasp}
                   {"J. Appl. Spectr."}
3045 MACRO {jqe}
                   {"IEEE J. Quantum Electron."}
3046 MACRO {jlwt}
                  {"J. Lightwave Technol."}
                   {"J. Mod. Opt."}
3047 MACRO {jmo}
3048 MACRO {josa}
                   {"J. Opt. Soc. America"}
3049 MACRO {josaa} {"J. Opt. Soc. Amer.~A"}
3050 MACRO {josab} {"J. Opt. Soc. Amer.~B"}
3051 MACRO {jdp}
                   {"J. Phys. (Paris)"}
                   {"Opt. Commun."}
3052 MACRO {oc}
                   {"Opt. Lett."}
3053 MACRO {ol}
3054 MACRO {os}
                   {"Opt. Spectrosc."}
3055 MACRO {phtl} {"IEEE Photon. Technol. Lett."}
3056 MACRO {pspie} {"Proc. Soc. Photo-Opt. Instrum. Eng."}
3057 MACRO {vr}
                   {"Vision Res."}
3058 MACRO {zph}
                   {"Z. f. Physik"}
                   {"Z. f. Physik~B"}
3059 MACRO {zphb}
                   {"Z. f. Physik~D"}
3060 MACRO {zphd}
```

2.8.4 Physics of condensed Matter

```
3061 MACRO {sse} {"Solid-State Electron."} 3062 MACRO {pss} {"Phys. Sol. State"} 3063 MACRO {nl} {"Nano Lett."}
```

2.8.5 Soviet and Russian journals

To be extended.

```
3064 MACRO {sjpp} {"Sov. J. Plasma Phys."}
3065 MACRO {spd} {"Sov. Phys.--Doklady"}
3066 MACRO {sptp} {"Sov. Phys.--Tech. Phys."}
3067 MACRO {spu} {"Sov. Phys.--Uspekhi"}
3068 {!utf8}MACRO {ufn} {"\CYRU\CYRF\CYRN"}
3069 {utf8}MACRO {ufn} {"YΦH"}
3070 MACRO {pu} {"Phys.--Uspekhi"}
3071 MACRO {sjot} {"Sov. J. Opt. Technol."}
3072 MACRO {sjep} {"Sov. J. Quantum Electron."}
3073 MACRO {sleb} {"Sov. Phys.--Leb. Inst. Rep."}
3074 MACRO {stph} {"Sov. Phys.--Techn. Phys."}
3075 MACRO {stphl}{"Sov. Techn. Phys. Lett."}
```

2.9 Main cycle

3076 3077 READ 3078

2.10 Sorting

```
Next chunk of code governs sorting reference list by authors' names and titles.
                 3079 (*sort | natbib)
                 3080
         sortify
                 3081 FUNCTION {sortify}
                 3082 { purify$
                 3083 (!utf8) "1" change.case$
                 3084 }
                 3085 (/sort | natbib)
                 3086
sort.format.names
                 3087 (*sort)
                 3089 %% This version from old Gost package
                 3090 %%<*!natbib>
                 3091 FUNCTION {sort.format.names}
                 3092 { 's :=
                       #1 'nameptr :=
                 3093
                 3094
                 3095
                       s num.names$ 'numnames :=
                       numnames 'namesleft :=
                 3096
                         { namesleft #0 > }
                 3097
                          { nameptr #1 >
                 3098
                             {" "*}
                 3099
                 3100
                              'skip$
                 3101
                            if$
                 3102
                            s nameptr
                 3103
                            "{vv{ } }{11{ }}{ f{ }}{ jj{ }}"
                 3104
                            format.name$ 't :=
                            nameptr numnames = t "others" = and
                 3105
                             { "et al" * }
                 3106
                             %{ bbl.etal * }
                 3107
                 3108
                             { t sortify * }
                 3109
                           nameptr #1 + 'nameptr :=
                 3110
                            namesleft #1 - 'namesleft :=
                 3111
                         }
                 3112
                 3113
                       while$
                 3114 }
                 3115 %%</!natbib>
                 3116 %% This version from plainnat.bst
                 3117 %% It ignores second and subsequent authors but include year.
                 3118 %%<*natbib>
                 3119 %FUNCTION {sort.format.names}
                 3120 %{ 's :=
                 3121 % #1 'nameptr :=
                 3122 % ""
```

```
3128 %
                          nameptr #1 >
                3129 %
                3130 %
                             namesleft #1 = t "others" = and
                3131 %
                3132 %
                                { "zzzzz" * }
                                { numnames \#2 > nameptr \#2 = and
                3133 %
                                   { "zz" * year field.or.null * " " * }
                3134 %
                3135 %
                                    skip$
                3136 %
                                  if$
                3137 %
                                  t sortify *
                                }
                3138 %
                3139 %
                              if$
                3140 %
                            7
                3141 %
                           { t sortify * }
                3142 %
                          if$
                3143 %
                          nameptr #1 + 'nameptr :=
                3144 %
                          namesleft #1 - 'namesleft :=
                3145 %
                        }
                3146 % while$
                3147 %}
                3148 %%</natbib>
                sort.format.title
                3151 FUNCTION {sort.format.title}
                3152 { 't :=
                3153 "A " #2
                       "An " #3
                3154
                3155
                         "The " #4 t chop.word % Removes "The " if any
                                              % Removes "An " if any
                3156
                       chop.word
                                              % Removes "A" if any
                3157 chop.word
                3158 sortify
                3159 #1 global.max$ substring$
                3160 }
                3161
     author.sort
                3163 %% This version from old gost package.
                3164 %%
                3165 (*!natbib)
                3166 FUNCTION {author.sort}
                3167 { author empty$
                3168
                        { key empty$
                3169
                           { "to sort, need author or key in " cite$ * warning$
```

s nameptr "{vv{ } }{11{ }}{ }ff{ }}{ }jf{ }}" format.name\$ 't :=

3123 % s num.names\$ 'numnames := 3124 % numnames 'namesleft :=

{ namesleft #0 > }

3125 %

3126 **%** 3127 **%**

```
11 11
                  3170
                               }
                  3171
                  3172
                               { key sortify }
                            if$
                  3173
                          }
                  3174
                  3175
                             author num.names$ #4 <
                  3176
                  3177
                               {author sort.format.names }
                  3178
                               {title sort.format.title}
                  3179
                             if$
                  3180
                        if$
                  3181
                  3182 }
                  3183 (/!natbib)
                  3184\ \mbox{\%}\ \mbox{This version from plainnat.bst}
                  3185 (*natbib)
                  3186 FUNCTION {author.sort}
                  3187 { author empty$
                           { key empty$
                  3188
                               { "to sort, need author or key in " cite$ * warning$
                  3189
                  3190
                  3191
                  3192
                               { key sortify }
                             if$
                  3193
                  3194
                           { author sort.format.names }
                  3195
                       if$
                  3196
                  3197 }
                  3198 (/natbib)
                  3200
author.title.sort
                  3201 (*!natbib | natbib)
                  3202 FUNCTION {author.title.sort}
                  3203 { author empty$
                  3204
                           { title empty$
                  3205
                               { key empty$
                  3206
                                   { "to sort, need author, title, or key in " cite$ * warning$
                  3207
                                   }
                  3208
                                   { key sortify }
                  3209
                  3210
                                 if$
                               }
                  3211
                  3212
                               { title sort.format.title }
                  3213
                             if$
                          }
                  3214
                  3215
                            author num.names$ #4 <
                  3216
                               {author sort.format.names }
                  3217
                  3218
                               {title sort.format.title}
```

```
if$
3219
3220
3221
      if$
3222 }
3223 (/!natbib | natbib)
3224 (*natbib | natbib)
3225 FUNCTION {author.editor.sort}
3226 { author empty$
3227
         { editor empty$
3228
             { key empty$
                 { "to sort, need author, editor, or key in " cite$ * warning$
3229
3230
3231
                 { key sortify }
3232
3233
               if$
             }
3234
3235
             { editor sort.format.names }
           if$
3236
3237
        { author sort.format.names }
3238
      if$
3239
3240 }
3241
3242 FUNCTION {author.organization.sort}
3243 { author empty$
         { organization empty$
3244
             { key empty$
3245
                 { "to sort, need author, organization, or key in " cite$ * warning$
3246
3247
                 }
3248
                 { key sortify }
3249
               if$
3250
             }
3251
             { "The " #4 organization chop.word sortify }
3252
3253
           if$
3254
         { author sort.format.names }
3255
      if$
3256
3257 }
3258
3259 FUNCTION {editor.organization.sort}
3260 { editor empty$
         { organization empty$
3261
3262
             { key empty$
                 { "to sort, need editor, organization, or key in " cite$ * warning$
3263
3264
                 }
3265
3266
                 { key sortify }
3267
               if$
             }
3268
```

```
{ "The " #4 organization chop.word sortify }
       3269
       3270
                 if$
       3271
       3272
               { editor sort.format.names }
       3273 if$
       3274 }
       3275 (/natbib | natbib)
       3276
       3277
presort Function to compute sort.key$. What is the space string "____" for?
       3278 (*!natbib)
       3279 FUNCTION {presort}%#1
       3280 {
       3281
             author.title.sort
       3282
       3283
       3284
             year field.or.null sortify
       3285
       3286
       3287
       3288 title field.or.null
       3289 sort.format.title
       3290 *
       3291 #1 entry.max$ substring$
       3292
             'sort.key$ :=
       3293 }
       3294 (/!natbib)
       3295 (*natbib)
       3296 FUNCTION {presort}%#2
       3297 { calc.label
       3298
             label sortify
       3299
             %author.title.sort
       3300
       3301
       3303 % type$ "book" =
       3304 % type$ "inbook" =
       3305 % or
       3306 %
                 'author.editor.sort
                { type$ "proceedings" =
       3307 %
                    'editor.organization.sort
       3308 %
                    { type$ "manual" =
       3309 %
                        'author.organization.sort
       3310 %
       3311 %
                         'author.sort
       3312 %
                      if$
                    }
       3313 %
       3314 %
                  if$
       3315 %
                }
       3316 % if$
       3317 author.title.sort
```

```
3318 "
3319 *
3320 year field.or.null sortify
3321 *
3322 "
3323 *
3324 %cite$
3325
     title field.or.null sort.format.title
3326
3327 #1 entry.max$ substring$
     'sort.label :=
3328
3329 sort.label *
3330 % -----
3331 #1 entry.max$ substring$
3332
     'sort.key$ :=
3333 }
3334 (/natbib)
3335 (/sort)
3336
3337 (*!sort)
3338 (*natbib)
3339 INTEGERS { seq.num }
3340
3341 FUNCTION {init.seq}
3342 { #0 'seq.num :=}
3343
3344 EXECUTE {init.seq}
3345
3346 FUNCTION {int.to.fix}
3347 { "000000000" swap$ int.to.str$ *
3349 }
3350
3351 FUNCTION {presort}%#3
3352 {
3353 calc.label
                              % computes label
3354 label sortify
                              % initiates sort.label
3355
3356 *
3357 seq.num #1 + 'seq.num := % advance seq.num
3358 seq.num int.to.fix % prepend seq.num with Os
3359 'sort.label :=
                              % set sort.label to seq.num
3360 sort.label *
                             % append seq.num to label
3361 #1 entry.max$ substring$ % cut if too long
3362
    'sort.key$ :=
                              % set sort.key$
3363 }
3364 (/natbib)
3365 (/!sort)
3367 (*sort | natbib)
```

```
3368 ITERATE {presort}
3369
3370 SORT
3371
3372 ⟨/sort | natbib⟩
3373
```

2.11 Bibliography list

We need to find longest label to put in into the argument of the thebibliography environment. In case of natbib options we also need to compute extra suffix for the year field if there two or more entries for given label (=author/editor/organization) in that year.

Declare global (external) strings used in calculation of the longest label.

```
3374 (!natbib) STRINGS { longest.label }
                  3375 (natbib) STRINGS { longest.label last.label next.extra }
                  3376
                  3377 (!natbib) INTEGERS { number.label longest.label.width }
                  3378 (natbib) INTEGERS { number.label longest.label.width last.extra.num }
ize.longest.label
                        Initialize those string.
                  3380 (*!natbib)
                  3381 FUNCTION {initialize.longest.label}
                  3382 { "" 'longest.label :=
                  3383  #1 'number.label :=
                  3384
                        #0 'longest.label.width :=
                  3385 }
                  3386 (/!natbib)
                  3387 (*natbib)
                  3388 FUNCTION {initialize.longest.label}
                  3389 { "" 'longest.label :=
                        #0 int.to.chr$ 'last.label :=
                  3390
                         "" 'next.extra :=
                  3391
                        #0 'longest.label.width :=
                  3392
                         #0 'last.extra.num :=
                  3393
                  3394
                         #0 'number.label :=
                  3395 }
                  3396 (/natbib)
                  3397
                  3398 EXECUTE {initialize.longest.label}
                  3399
                        Iterate though the list of entries to compute label.
ize.longest.label
                  3400 (*!natbib)
                  3401 FUNCTION {forward.pass}
                  3402 { number.label int.to.str$ 'label :=
                         number.label #1 + 'number.label :=
                  3404
                         label width$ longest.label.width >
                  3405
                           { label 'longest.label :=
                             label width$ 'longest.label.width :=
                  3406
```

```
3408
                      'skip$
             3409
                   if$
             3410 }
             _{3411} \langle /!natbib\rangle
             3412 (*natbib)
             3413 FUNCTION {forward.pass}
             3414 { last.label label =
                      { last.extra.num #1 + 'last.extra.num :=
             3416
                       last.extra.num int.to.chr$ 'extra.label :=
             3417
                     { "a" chr.to.int$ 'last.extra.num :=
             3418
                        "" 'extra.label :=
             3419
                        label 'last.label :=
             3420
                      }
             3421
             3422 if$
             3423 number.label #1 + 'number.label :=
             3424 }
             3425 (/natbib)
             3426
             3427 ITERATE {forward.pass}
                   Natbib styles require reverse iteration over all entries.
reverse.pass
             3429 (*natbib)
             3430 FUNCTION {reverse.pass}
             3431 { next.extra "b" =
                      { "a" 'extra.label := }
             3432
             3433
                      'skip$
                   if$
             3434
             3435
                   extra.label 'next.extra :=
             3436
                   extra.label
             3437
                    duplicate$ empty$
             3438
                      'skip$
                      { "{\natexlab{" swap$ * "}}" * }
             3439
                   if$
             3440
             3441
                    'extra.label :=
             3442
                   label extra.label * 'label :=
             3443 }
             3444
             3445 REVERSE {reverse.pass}
             3447 FUNCTION {bib.sort.order}
             3448 { sort.label 'sort.key$ :=
             3449 }
             3450
             3451 ITERATE {bib.sort.order}
             3452
             3453 SORT
             3454 (/natbib)
             3455
```

}

3407

begin.bib Within thebibliography environment we define few formatting macros for user to customize how the reference list is formatted.

```
3456 FUNCTION {begin.bib}
       3457 { "\begin{thebibliography}{" longest.label * "}" * write$ newline$
             "\def\selectlanguageifdefined#1{"
                                                                  write$ newline$
              "\expandafter\ifx\csname date#1\endcsname\relax"
                                                                  write$ newline$
       3459
       3460 % "\else\language\csname 10#1\endcsname\fi}"
                                                                   write$ newline$
              "\else\selectlanguage{#1}\fi}"
                                                                  write$ newline$
       3461
              "\providecommand*{\href}[2]{{\small #2}}"
                                                                  write$ newline$
       3462
       3463
              "\providecommand*{\url}[1]{{\small #1}}"
                                                                  write$ newline$
              "\providecommand*{\BibUrl}[1]{\url{#1}}"
       3464
                                                                  write$ newline$
              "\providecommand{\BibAnnote}[1]{}"
                                                                  write$ newline$
       3465
              "\providecommand*{\BibEmph}[1]{#1}"
                                                                  write$ newline$
       3466
       3467 (*modern|!modern)
              %"\ProvideTextCommandDefault{\cyrdash}{---}" write$ newline$
       3468
              %\DeclareUTFcharacter[\UTFencname]{x2014}{\cyrdash}
       3469
             %"\let\cyrdash\textemdash" write$ newline$
       3470
             %"\ProvideTextCommandDefault{\cyrdash}{\hbox to.8em{--\hss--}}" write$ newline$
       3471
              "\ProvideTextCommandDefault{\cyrdash}{\textemdash}" write$ newline$
       3472
              "\ProvideTextCommandDefault{\cyrdash}{\iflanguage{russian}{\hbox to.8em{--\hss--}}{\textemdash}}" write$ no
       3473
              %%"\ProvideTextCommandDefault{\cyrdash}{%" write$ newline$
       3474
                   \inflamguage{russian}{\hbox to.8em{--\hss--}}{\"write$ newline$}
       3475
             %%"
       3476
                     \iflanguage{ukrainian}{\hbox to.8em{--\hss--}}{\textemdash}}}" write$ newline$
       3477
              "\providecommand*{\BibDash}{\ifdim\lastskip>0pt\unskip\nobreak\hskip.2em plus 0.1em\fi" write$ newline$
              "\cyrdash\hskip.2em plus 0.1em\ignorespaces}" write$ newline$
       3478
              "\renewcommand{\newblock}{\ignorespaces}" write$ newline$
       3479
       3480 (/modern|!modern)
                    "\providecommand{\natexlab}[1]{#1}" write$ newline$
       3481 (natbib)
             preamble$ empty$
       3482
       3483
                'skip$
       3484
                { preamble$ write$ newline$ }
       3485
             if$
       3486 }
       3487
       3488
       3489 EXECUTE {begin.bib}
       3491 EXECUTE {init.state.consts}
       3492
       3493 ITERATE {call.type$}
       3494
end.bib
       3495 FUNCTION {end.bib}
       3496 { newline$
       3497 % "\catcode'\/=11"
                                       write$ newline$
             "\end{thebibliography}" write$ newline$
       3498
       3499 }
       3501 EXECUTE {end.bib}
```

```
3502 3503 \langle/bst\rangle That's \ all, \ Folks!
```

Change History

v0.8	v1.2c
General: entry field annote added 8	General: entry field eid added 8, 45, 46
macro \BibAnnote added 52, 86	entry field langid added 8, 38
macro \BibEmph added 14, 86	fix Gost2003: " replaced by macro
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v0.9	v1.2d
General: bug fix in @inproceedings entry	General: \bbljan etc. macros removed 73 v1.2e
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General: Entry type @online added 65	v1.2f
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entry fields eprint, eprintclass,	location field added as alias to address
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entry fields eprint, eprintclass,	media field normalised
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fix bbl.urldate for ukrainian (Andrey	
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General: default for \cyrdash added 86	corrected bbl.phdthesis and bbl.docthesis
·	to comply GOST 23
v1.2b	entry @MastersThesis added again (see
General: entry field numpages renamed to	v1.1)
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