# The GOST package

Igor Kotelnikov, Leonid Sinev https://github.com/kia999/GOST/

Version? released?

#### 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.

## 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Kotelnikov to the present status and some code was borrowed from disser package developed by Stanislav Kruchinin and unpublished work by Artem Petrenkov.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 7.80 -2000 Bibliographic record. Heading. General requirements and rules.

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

GOST 7.1 -2003 Bibliographic record. Bibliographic description. 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 7.0.5-2008 Bibliographic reference. General requirements and rules of making.

Etc.

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) versions of each BibTeX style, in each case offering a choice of sorted and unsorted.

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	ut:	f8	strict	1	eprint		long	1	sort	natbib
gost2003	 	 	+		+	1		1		
gost2003s			+	-	+	1			+	
gost2008	1	- 1		-	+	1		1		
gost2008n				-	+	1				+
gost20081				-	+	1	+			
gost2008s				-	+	1			+	
gost2008ns		- 1		-	+	1			+	+
gost2008ls	1	- 1		-	+	1	+		+	
ugost2003	+	- 1	+	-	+	-		1		
ugost2003s	+	- 1	+	-	+	-		1	+	
ugost2008	+	- 1		I	+	١				
ugost2008n	+	- 1		I	+	١				+
ugost20081	+	- 1		-	+	-	+	1		
ugost2008s	+	- 1		-	+	-		1	+	
ugost2008ns	+	- 1		I	+	١			+	+
ugost20081s	+	1		1	+	1	+	I	+	
Style	ut:	 f8	strict	   	eprint	   	long	   	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.

The strict option provides conformance to the Standard 7.1-2003. The bibstyles 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 bibstyles compiled without strict option meets the Standard 7.0.5-2008 which can be thought off as a relaxed version of the Standards 7.1-2003. These bibstyles bear the name gost2008 with possible suffixes s, 1, n.

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, BibT<sub>E</sub>X8 distribution comes with few more CSFs.

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

## 2 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 langid="ukrainian" or langid="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 and ugost\*.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 bibtex.exe or bibtex8.exe 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.

#### 3 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.

## 4 Where to get

- 1. http://ctan.org/pkg/gost.
- 2. http://github.com/kia999/gost.

## 5 Version history

## Version 1.2l (2021.02.05)

Bug fixed: removed \endofline.

### Version 1.2k (2020.12.29)

- 1. All stuff is now generated from gost.dtx.
- 2. Limited support of the date field added.
- 3. Formatting of doi field updated: http://dx.doi.org changed to https://doi.org.
- 4. Restricted support of date field added.
- 5. Documentation and examples update (thanks to Leonid Sinev).

## 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. @DSCISTHESIS entry renamed to @DOCTHESIS.
- 6. 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. QMastersThesis 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.

#### 5.1 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.

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

#### 6.1 Fields

Enlist all entry fields allowed in a bibliographic database. Most fields are common for many standard bst styles. Nonlisted fields are just ignored by BibT<sub>E</sub>X.

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

```
% new in v1.2f:
79
       % appear in biblatex:
       %addendum
                       % not implemented yet...
81
       holder
                       % see patent
82
       location
                       % new in v.1.2i, alias of address
83
                       % not implemented yet...
84
       %subtitle
                       % new in v.1.2i, see @thesis
85
       titleaddon
86
       %version
                       % not implemented yet...
87
       % Appear in biblatex-gost for Opatent entry:
88
       authorcountry
                      % country of the patent authors
       credits
                       % statement of responsibility, other than provided in Biblatex
89
                       \% Code of the International Patent Classification
90
       ipc
       %media
                       \% General material designation NOTE: medium in the above
91
92
       requestnumber
                       % Registration number of the application to the patent document
       publicationdate % Date of publication
                       % and information on the official gazette, which published patent
94
       publication
                       % Information about the convention priority: the date of filing of the application,
95
       prioritydate
       prioritynumber %
                           number and
96
                          country name of convention priority.
       prioritycountry %
97
                       % ??
98
       requestdate
    }
99
100
    {}
101 (!natbib) { label }
102 (natbib) { label extra.label sort.label short.list }
103
```

## 6.2 Output functions

Declare internal variables and constants used for formatting bibliographic records. Other variables are defined below when needed.

```
104 INTEGERS {
105
       output.state
       before.all
106
       mid.sentence
107
       after.sentence
108
       after.block
109
       after.dblslash
110
       after.slash
111
       after.colon
112
       after.semicolon
113
114 }
115
116 STRINGS { curlanguage }
118 STRINGS { s t }
120 STRINGS { y m d }
                        % new in v.1.2j
```

init.state.consts

Set constants that designate various output states which are kept by 'output.state' integer. The

latter is checked and updated by a set of functions such as 'output' to be defined below.

```
122 FUNCTION {init.state.consts}
123 { #0 'before.all :=
124 #1 'mid.sentence :=
125
    #2 'after.sentence :=
126
    #3 'after.block :=
127
    #4 'after.dblslash :=
    #5 'after.slash :=
128
    #6 'after.colon :=
    #7 'after.semicolon :=
130
131 }
132
```

set.language

Sets current language curlanguage. Called by bibitem.output before any other function.

```
133 FUNCTION {set.language}
134 { langid empty$
       { language empty$
136
            { "english" 'curlanguage := }
            { language 'curlanguage := }
137
138
         if$
       }
139
       { langid 'curlanguage := }
140
     if$
141
142 }
143
```

reset.language

Reset current language to booklanguage if provided. Called by output.nonnull after double slash so that the rest of the record is formatted with booklanguage.

```
144 FUNCTION {reset.language}
145 { booklanguage empty$
       { "" }
146
147
       { booklanguage 'curlanguage :=
148
          "\selectlanguageifdefined{"
149
          curlanguage *
          "}" *
150
       }
151
     if$
152
153 }
154
```

Declare various functions to output various parts of a bibliographic record.

output.nonnull

Writes the last literal in the stack to output buffer assuming that it is not empty and adds an appropriate punctuation symbol.

```
163
                             newline$
              164
                             "\newblock " write$
              165
                          { output.state before.all =
              166
                               'write$
              167
                               { output.state after.dblslash =
              168
                                   { "~//" * reset.language * " " * write$ }
              169
              170
                                   { output.state after.slash =
                                        { "~/ " * write$ }
              171
                                        { output.state after.colon =
              172
                                            { "~: " * write$ }
              173
                                            { output.state after.semicolon =
              174
                                                { "~; " * write$ }
              175
                                            { add.period$ " " * write$ }
              176
              177
                                           if$
                                            }
              178
                                          if$
              179
                                       }
              180
                                     if$
              181
                                   }
              182
              183
                                 if$
              184
                               }
                            if$
              185
                          }
              186
                        if$
              187
                        mid.sentence 'output.state :=
              188
              189
              190
                    if$
              191 }
              192
                    Calls output.nonnull if the last literal string in the stack is not empty; otherwise it discards
      output
               the literal.
              193 FUNCTION {output}
              194 { duplicate$ empty$
              195
                      'pop$
                      'output.nonnull
              196
              197
                    if$
              198 }
              199
                    Does the same but also warns if the indicated field is empty. Needs two literals in the stack:
output.check
               the field and the name of the field, e.g., author "author" output.check.
              200 FUNCTION {output.check}
              201 { 't :=
                    duplicate$ empty$
              202
                      { pop$
              203
                        "empty " t * " in " * cite$ * warning$
              204
                      }
              205
```

206

207

if\$

'output.nonnull

```
208 }
               209
                    fin.entry finalizes current entry. It writes dot, if no dot is found in stack, and starts new line.
    fin.entry
               210 FUNCTION {fin.entry}
               211 { add.period$
                    write$
               212
               213
                    newline$
               214 }
               215
                    Declare a family of functions to put punctuation marks depending on the current status of the
                output stack.
    new.block
                    This just checks output state and revert it to another state if required. Checking output state
                prevents occasional doubling of punctuation marks.
               216 FUNCTION {new.block}
               217 { output.state before.all =
                       'skip$
               218
                       { after.block 'output.state := }
               219
               220
                    if$
               221 }
               222
 new.dblslash
               223 FUNCTION {new.dblslash}
               224 { output.state before.all =
               225
                       'skip$
               226
                       { after.dblslash 'output.state := }
               227
                    if$
               228 }
               229
    new.slash
               230 FUNCTION {new.slash}
               231 { output.state before.all =
                       'skip$
                       { after.slash 'output.state := }
               233
               234
                    if$
               235 }
               236
    new.colon
               237 FUNCTION {new.colon}
               238 { output.state before.all =
                       'skip$
               239
                       { after.colon 'output.state := }
               240
               241
                    if$
               242 }
               243
new.semicolon
               244 FUNCTION {new.semicolon}
```

```
245 { output.state before.all =
                     'skip$
                     { after.semicolon 'output.state := }
              248 if$
              249 }
              250
new.sentence
              251 FUNCTION {new.sentence}
              252 { output.state after.block =
              253
                     'skip$
                     { output.state before.all =
              254
              255
                          'skip$
                          { after.sentence 'output.state := }
              256
              257
                        if$
              258
                     }
              259 if$
              260 }
              261
   add.blank
              262 FUNCTION {add.blank}
              263 { " " * before.all 'output.state :=
              264 }
              265
```

## 6.3 Logical functions and various checks

Declare few logical functions.

```
not
    266 FUNCTION {not}
    267 { #0 }
           { #1 }
    268
    269 if$
    270 }
    271
and
    272 FUNCTION {and}
           'skip$
            { pop$ #0 }
    274
    275 if$
    276 }
    277
 or
    278 FUNCTION {or}
    279 { pop$ #1 }
            'skip$
    280
    281
         if$
    282 }
    283
```

```
284 %FUNCTION {non.stop}
                   285 %{ duplicate$
                          "}" * add.period$
                   286 %
                   287 %
                           #-1 #1 substring$ "." =
                   288 %}
                   289 %
                    Adds new.block if the last literal in stack is not empty.
new.block.checka
                   290 FUNCTION {new.block.checka}
                   291 { empty$
                   292
                           'skip$
                           'new.block
                   293
                         if$
                   294
                   295 }
                   296
                    Adds new.block if either of the two last literals in the stack is not empty.
new.block.checkb
                   297 FUNCTION {new.block.checkb}
                   298 { empty$
                   299
                         swap$ empty$
                         and
                   300
                           'skip$
                   301
                           'new.block
                   302
                         if$
                   303
                   304 }
                    Adds new.sentence if the last literal in stack is not empty.
w.sentence.checka
                   306 FUNCTION {new.sentence.checka}
                   307 { empty$
                   308
                           'skip$
                   309
                           'new.sentence
                   310
                         if$
                   311 }
                   312
                     Adds new.sentence if either of the two last literals in the stack is not empty.
w.sentence.checkb
                   313 FUNCTION {new.sentence.checkb}
                   314 { empty$
                   315
                         swap$ empty$
                   316
                         and
                           'skip$
                   317
                           'new.sentence
                   318
                         if$
                   319
                   320 }
                   321
w.dblslash.checka
                   For online entry.
                   322 FUNCTION {new.dblslash.checka}
                   323 { empty$
                   324
                           'skip$
```

(NB: What's the hell? Never used.)

non.stop

```
'new.dblslash
                 325
                 326
                       if$
                 327 }
                 328
                   Replaces an empty field with null string "".
 field.or.null
                 329 FUNCTION {field.or.null}
                 330 { duplicate$ empty$
                         { pop$ "" }
                 331
                         'skip$
                 332
                 333
                       if$
                 334 }
                 335
                       (NB: Move upwards)
either.or.check
                 336 FUNCTION {either.or.check}
                 337 { empty$
                 338
                         'pop$
                         { "can't use both " swap$ * " fields in " * cite$ * warning$ }
                 339
                 340
                       if$
                 341 }
                 342
                         String Functions
                   Inserts a space before and after last literal in the stack.
  spaces.around
                 343 FUNCTION {spaces.around}
                 344 { " " swap$ * " " * }
                 345
                      Emphasizes the last literal in the stack if it is not empty. v1.2k: emphasize now returns empty
      emphasize
                  field if last literal in the stack was empty.
                 346 FUNCTION {emphasize}
                 347 { duplicate$ empty$
                         %{ pop$ "" }
                 348
                 349
                         'skip$
                                       % v.1.2k
                         { "\BibEmph{" swap$ * "}" * }
                 350
                      if$
                 351
                 352 }
                 353
                       New in v.1.2. An idea borrowed from apsrev4-1.bst. Encloses last literal in the stack by braces
        bracify
                  even if it is empty. Note that braces are normally not printed by LATEX.
                 354 FUNCTION {bracify}
                 355 { duplicate$ empty$
                         { pop$ "{}" }
                 356
                         { "{" swap$ * "}" * }
                 357
                 358
                       if$
                 359 }
                 360
```

This and the next functions are used to enclose last word by square and round brackets. In contrast bracketise to bracify function they push null string if the last literal is empty. 361 FUNCTION {bracketise} 362 { 363 duplicate\$ empty\$ { pop\$ "" } 364 365 { "[" swap\$ \* "]" \* } 366 if\$ 367 } 368 paranthesify 369 FUNCTION {paranthesify} 370 { 371 duplicate\$ empty\$ { pop\$ "" } 372 { "(" swap\$ \* ")" \* } 373 if\$ 374 375 } 376 chop.word The function chop.word in the context 'sstr len str chop.word' tries to remove given substring sstr of the length len from the beginning of the string str. It trims str only if first len symbols in str coinsides with sstr. See examples in Section 6.8. 377 (\*sort | natbib) 378 INTEGERS { len } 379 380 FUNCTION {chop.word} 381 { 's := 'len := s #1 len substring\$ = { s len #1 + global.max\$ substring\$ } 384 25 385 if\$ 386 387 } 388 (/sort | natbib) Currently not used. is.num (NB: Можно использовать для проверки года, извлечённого из date.) 390 (\*debug) 391 FUNCTION {is.num} 392 { chr.to.int\$ duplicate\$ "0" chr.to.int\$ < not</pre> swap\$ "9" chr.to.int\$ > not and 395 } 396

397 (/debug)

extract.num

Currently not used.

```
399 FUNCTION {extract.num}
                   400 { duplicate$ 't :=
                         "" 's :=
                   401
                        { t empty$ not }
                   402
                        { t #1 #1 substring$
                   403
                           t #2 global.max$ substring$ 't :=
                   404
                   405
                           duplicate$ is.num
                   406
                             { s swap$ * 's := }
                             { pop$ "" 't := }
                   407
                           if$
                   408
                        }
                   409
                        while$
                   410
                   411
                         s empty$
                   412
                           'skip$
                           { pop$ s }
                   413
                   414
                        if$
                   415 }
                   416
                   417 (/debug)
                        Inserts unbreakable space between last two literals in the stack.
      tie.connect
                   418 FUNCTION {tie.connect}
                   419 {"~" swap$ * *
                   420
                   421
                        Inserts space or unbreakable space between last two literals in the stack depending on the length
.or.space.connect
                    of last literal.
                   422 FUNCTION {tie.or.space.connect}
                   423 { duplicate$ text.length$ #3 <
                          { "~" }
                           { " " }
                   425
                   426
                        if$
                   427
                         swap$ * *
                   428 }
                   429
        n.dashify
                   430 FUNCTION {n.dashify}
                   431 { 't :=
                   432
                   433
                           { t empty$ not }
                           { t #1 #1 substring$ "-" =
                   434
                               { t #1 #2 substring$ "--" = not
                   435
                                    { "--" *
                   436
                                      t #2 global.max$ substring$ 't :=
                   437
                                   }
                   438
                                       { t #1 #1 substring$ "-" = }
                   439
                                        { "-" *
                   440
                                          t #2 global.max$ substring$ 't :=
                   441
```

398 (\*debug)

```
}
442
443
                    while$
                 }
444
               if$
445
            }
446
            { t #1 #1 substring$ *
447
               t #2 global.max$ substring$ 't :=
448
449
          if$
450
        }
451
     while$
452
453 }
454
```

multi.page.check

Returns 1 if the last literal (usually page) contains either '-', ',' or '+'; otherwise returns 0. Used in connection with n.dashify.

⟨№: Заметим несогласованность функций multi.page.check и n.dashify. Последняя функция проверяет дефис, а первая ещё и минус и запятую.⟩

```
455 INTEGERS { multiresult }
456
457 FUNCTION {multi.page.check}
458 { 't :=
     #0 'multiresult :=
459
460
       { multiresult not
461
          t empty$ not
462
463
       { t #1 #1 substring$
464
          duplicate$ "-" =
465
          swap$ duplicate$ "," =
466
          swap$ "+" =
467
468
          or or
            { #1 'multiresult := }
469
            { t #2 global.max$ substring$ 't := }
470
          if$
471
       }
472
     while$
473
474
     multiresult
475 }
476
```

#### 6.5 Language-sensitive abbreviations

Declare language-sensitive abbreviations. We provide two versions of any abbreviation for unicode and non-Unicode styles. The language-sensitive functions push to the stack a string that depends of the the current value of the string curlanguage. It is set for every entry by output.bibitem function. Abbreviations for russian, ukrainian and english values of the string curlanguage are always provided, and sometimes for french and german.

bbl.edby

```
477 FUNCTION {bbl.edby}
               478 { curlanguage "english" =
                     {"ed.\ by"}
                     { curlanguage "ukrainian" =
               480
                               {"{\cyr\cyrp\cyrii\cyrd\ \cyrr\cyre\cyrd.}"}
               481 (!utf8)
               482~\langle \text{utf8} \rangle
                              {"під ред."}
                         { curlanguage "russian" =
               483
               484 (!utf8)
                                  {"{\cyr\cyrp\cyro\cyrd\ \cyrr\cyre\cyrd.}"}
               485 (utf8)
                                 {"под ред."}
                            { curlanguage "german" =
               486
                               { "ed." }
               487
                               {"language is not defined: " curlanguage " in bbl.edby" * * warning$ "Ed.\ by"}
               488
                            if$}
               489
               490
                         if$}
               491
                     if$}
               492 if$}
               493
bbl.compiler
               494 FUNCTION {bbl.compiler}
               495 { curlanguage "english" =
               496
                     { "Compiler"}
                     { curlanguage "german" =
               497
               498
                         { "Hrsg." }
                         { curlanguage "ukrainian" =
               499
               500 (!utf8)
                                  {"{\cyr\CYRU\cyrk\cyrl.}"}
                                  {"{Укл.}"}
               501 (utf8)
                            { curlanguage "russian" =
               502
               503 (!utf8)
                                     {"{\cyr\CYRS\cyro\cyrs\cyrt.}"}
               504 (utf8)
                                     {"{Cocr.}"}
               505
                                {"language is not defined: " curlanguage " in bbl.compiler" * * warning$ "Compiler"}
               506
                            if$}
               507
                         if$}
               508
                     if$}
               509 if$}
               510
 bbl.edition
               511 FUNCTION {bbl.edition}
               512 { curlanguage "english" =
                     {\text{"ed."}}
               513
                     { curlanguage "ukrainian" =
               514
               515 (!utf8)
                               {"{\cyr\cyrv\cyri\cyrd.}"}
               516 (utf8)
                              {"{вид.}"}
                         { curlanguage "russian" =
               517
               518~\langle !utf8\rangle
                                  {"{\cyr\cyri\cyrz\cyrd.}"}
                                  {"{изд.}"}
               519 (utf8)
                            { curlanguage "german" =
               520
                               {" {aus.}" } %%%% { "Aufl." } ??
               521
                               { curlanguage "italian" =
               522
                                   {"edizione"}
               523
```

```
{ curlanguage "french" =
             524
                                    {"\'{e}dition"}
             525
                                    {"language is not defined: " curlanguage " in bbl.edition" * * warning$ "ed."}
             526
             527
                             if$}
             528
                          if$}
             529
                       if$}
             530
             531
                   if$}
             532 if$}
             533
bbl.vvolume
             534 FUNCTION {bbl.vvolume}
             535 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
             537
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             538 (!utf8)
                            { "\CYRT\cyro\cyrm" }
                            { "Tom" }
             _{539}~\langle utf8\rangle
                       { curlanguage "german" =
             540
                          {"{Band}"} %%%% { "Volumen" }
             541
                          {"language is not defined: " curlanguage " in bbl.vvolume" * * warning$ "Volume"}
             542
             543
                       if$}
             544
                   if$}
             545 if$}
             546
   bbl.vvol
             547 FUNCTION {bbl.vvol}
             548 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                   {"Vol."}
                   { curlanguage "ukrainian" = curlanguage "russian" = or
                            {"\CYRT."}
             551 (!utf8)
             552 (utf8)
                            {"T."}
                       { curlanguage "german" =
             553
                          {"{Bd.}"} %%%% { "Vol." }
             554
                          {"language is not defined: " curlanguage " in bbl.vvol" * * warning$ "Vol."}
             555
                       if$}
             556
             557
                   if$}
             558 if$}
             559
bbl.iissue
             560 FUNCTION {bbl.iissue}
             561 { curlanguage "english" =
                   {"Issue"}
                   { curlanguage "ukrainian" =
             563
             564 (!utf8)
                            {"\CYRV\cyri\cyrp\cyru\cyrs\cyrk"}
                            {"Випуск"}
             565 (utf8)
                       { curlanguage "russian" =
             566
             567 (!utf8)
                               {"\CYRV\cyrery\cyrp\cyru\cyrs\cyrk"}
             568 (utf8)
                               {"Выпуск"}
                          { curlanguage "german" =
             569
```

```
{"{Heft}"} %%%% { "Ausgabe" }
          570
                           {"language is not defined: " curlanguage " in bbl.iissue" * * warning$ "Issue"}
          571
          572
                        if$}
                    if$}
          573
                 if$}
          574
          575 if$}
          576
bbl.iiss
          577 FUNCTION {bbl.iiss}
          578 { curlanguage "english" =
                 {"Iss."}
                 { curlanguage "ukrainian" =
                          {"\CYRV\cyri\cyrp."}
          581 (!utf8)
                          {"Вип."}
          583
                    { curlanguage "russian" =
          584 \langle !utf8 \rangle
                              {"\CYRV\cyrery\cyrp."}
          585~\langle \text{utf8} \rangle
                             {"Вып."}
                        { curlanguage "german" =
          586
                           {"{H.}"}
          587
                           {"language is not defined: " curlanguage " in bbl.iiss" * * warning$ "Iss."}
          588
          589
                        if$}
          590
                    if$}
                 if$}
          591
          592 if$}
          593
  bbl.of
          594 FUNCTION {bbl.of}
          595 { curlanguage "english" =
                 {"of"}
          596
                 { curlanguage "german" =
          597
          598
                    { "von" }
                    { curlanguage "ukrainian" =
          599
          600 (!utf8)
                             { "{\cyr\cyrii\cyrz}" }
          601 (utf8)
                             { "{i3}" }
                        { curlanguage "russian" =
          602
          603 \langle !utf8 \rangle
                                 { "{\cyr\cyri\cyrz}" }
          604 (utf8)
                                 { "{EN}}" }
                           {"language is not defined: " curlanguage " in bbl.of" * * warning$ "of"}
          605
                        if$}
          606
                    if$}
          607
                 if$}
          608
          609 if$}
          610
bbl.etal
          611 FUNCTION {bbl.etal}
          612 { curlanguage "english" =
                {"et~al."}
          613
          614
                 { curlanguage "german" =
          615
                    { "u.~a." }
```

```
{ curlanguage "ukrainian" =
             617 (!utf8)
                               {"{\cyr\cyrt\cyra~\cyrii\cyrn.}"}
             618 (utf8)
                               {"{та~ін.}"}
                          { curlanguage "russian" =
             619
                                   {"{\cyr\cyri~\cyrd\cyrr.}"}
             620 (!utf8)
             621 (utf8)
                                  {"и~др."}
                             {"language is not defined: " curlanguage " in bbl.etal" * * warning$ "et~al."}
             622
             623
                          if$}
             624
                       if$}
                   if$}
             625
             626 if$}
             627
    bbl.and
             628 FUNCTION {bbl.and}
             629 { curlanguage "english" =
             630
                  {"and"}
             631
                   { curlanguage "german" =
                       { "und" }
             632
                       { curlanguage "ukrainian" =
             633
             634 (!utf8)
                               {"{\cyrii}"}
             635 (utf8)
                               {"i"}
                          { curlanguage "russian" =
             636
             637 (!utf8)
                                  {"{\cyri}"}
                                  {"и"}
             638 (utf8)
                             { curlanguage "french" =
             639
             640
                                 {"et"}
             641
                                 {"language is not defined: " curlanguage " in bbl.and" * * warning$ "and"}
             642
                             if$}
                          if$}
             643
                       if$}
             644
             645
                   if$}
             646 if$}
             647
bbl.nnumber
             648 FUNCTION {bbl.nnumber}
             649 { curlanguage "english" =
                   {"Number"}
                    { curlanguage "ukrainian" = curlanguage "russian" = or
             652 (!utf8)
                            { "\CYRN\cyro\cyrm\cyre\cyrr" }
                            { "{Homep}" }
             653 (utf8)
                       { curlanguage "german" =
             654
                          {"{Heft}"} %%% { "Anzahl" }
             655
                          {"language is not defined: " curlanguage " in bbl.nnumber" * * warning$ "Number"}
             656
             657
                       if$}
             658
                   if$}
             659 if$}
             660
bbl.number
             661 FUNCTION {bbl.number}
```

```
662 { curlanguage "english" =
               {"number"}
               { curlanguage "ukrainian" = curlanguage "russian" = or
         665 (!utf8)
                        {"{\cyr\cyrn\cyro\cyrm\cyre\cyrr}"}
                        {"{номер}"}
         666 (utf8)
                  { curlanguage "german" =
         667
                      {"{Heft}"} %%% { "anzahl" }???
         668
                      {"language is not defined: " curlanguage " in bbl.number" * * warning$ "number"}
         669
         670
         671
               if$}
         672 if$}
         673
 bbl.nr
         674 FUNCTION {bbl.nr}
         675 { curlanguage "english" =
         676
               {"no."}
         677
               { curlanguage "italian" =
         678
                  { "no." }
                   { curlanguage "ukrainian" = curlanguage "russian" = or
         679
         680 (!utf8)
                           { "{\cyr\textnumero}" }
         681 (utf8)
                           { "{J₽}" }
                      { curlanguage "german" =
         682
                         {"{nu.}"} %%% { "an." }
         683
                         { curlanguage "french" =
         684
                             { "no." }
         685
                             {"language is not defined: " curlanguage " in bbl.nr" * * warning$ "no."}
         686
                         if$}
         687
         688
                      if$}
                  if$}
         689
         690
               if$}
         691 if$}
         692
bbl.nnr
         693 FUNCTION {bbl.nnr}
         694 { curlanguage "english" =
               {"No."}
               { curlanguage "ukrainian" = curlanguage "russian" = or
         697 (!utf8)
                        { "{\cyr\textnumero}" }
         698 (utf8)
                        { "{J}}" }
                  { curlanguage "german" =
         699
                      {"{H.}"} %%% { "an." }
         700
                      {"language is not defined: " curlanguage " in bbl.nnr" * * warning$ "No."}
         701
         702
                  if$}
         703
               if$}
         704 if$}
         705
 bbl.in
         706 FUNCTION {bbl.in}
         707 { curlanguage "english" = curlanguage "german" = or
```

```
708 {"in"}
           709 { curlanguage "ukrainian" = curlanguage "russian" = or
                         { "{\cyr\cyrv}" }
           710 (!utf8)
                        { "{B}" }
           711 (utf8)
                   {"language is not defined: " curlanguage " in bbl.in" * * warning$ "in"}
           712
           713
                 if$}
          714 if$}
          715
  bbl.iin Currently not used.
          716 FUNCTION {bbl.iin}
           717 { curlanguage "english" = curlanguage "german" = or
                 { curlanguage "ukrainian" = curlanguage "russian" = or
           719
                         { "\CYRV" }
           720 (!utf8)
           721 \langle \mathsf{utf8} \rangle
                         { "{B}" }
                   {"language is not defined: " curlanguage " in bbl.iin" * * warning$ "In"}
           723
           724 if$}
           725
bbl.pages
           726 FUNCTION {bbl.pages}
           727 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                 {"p."} %%% {"pp."}
                { curlanguage "ukrainian" = curlanguage "russian" = or
           729
           730 (!utf8)
                         {"{\cyr\cyrs.}"}
           731 (utf8)
                         {"{c.}"}
                    { curlanguage "german" =
           732
           733
                       {"S."} %%%% { "s." }
                       {"language is not defined: " curlanguage " in bbl.pages" * * warning$ "p."}
           734
                    if$}
           735
                 if$}
           736
           737 if$}
           738
 bbl.page
           739 FUNCTION {bbl.page}
           740 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                {"p."}
                 { curlanguage "ukrainian" = curlanguage "russian" = or
           742
           743 (!utf8)
                         {"{\cyr\cyrs.}"}
           744 (utf8)
                         {"{c.}}"}
           745
                    { curlanguage "german" =
                       {"S."} %%%% { "s." }
           746
                       {"language is not defined: " curlanguage " in bbl.page" * * warning$ "p."}
           747
                    if$}
           748
                 if$}
           749
          750 if$}
           751
```

bbl.ppages

```
752 FUNCTION {bbl.ppages}
             753 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
                   {"P."} %%%% { "Pp." }
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             755
             756 (!utf8)
                            {"{\cyr\CYRS.}"}
             757 \langle utf8 \rangle
                            {"{C.}"}
                      { curlanguage "german" =
             758
             759
                          {"S."}
             760
                          {"language is not defined: " curlanguage " in bbl.ppages" * * warning$ "P."}
             761
                      if$}
             762
                   if$}
             763 if$}
             764
  bbl.ppage
             765 FUNCTION {bbl.ppage}
             766 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
             767
                   {"P."}
                   { curlanguage "ukrainian" = curlanguage "russian" = or
             768
             769 (!utf8)
                            {"{\cyr\CYRS.}"}
             770 (utf8)
                            {"{C.}"}
             771
                      { curlanguage "german" =
                          {"S."}
             772
                          {"language is not defined: " curlanguage " in bbl.ppage" * * warning$ "P."}
             773
             774
                      if$}
             775
                   if$}
             776 if$}
    bbl.url Added in version 2016.07.07.
             778 FUNCTION {bbl.url}
             779 { curlanguage "english" =
                   {"Access mode"}
                   { curlanguage "ukrainian" =
             781
                            { "{\CYRR\cyre\cyrzh\cyri\cyrm\ \cyrd\cyro\cyrs\cyrt\cyru\cyrp\cyru}" }
             782 (!utf8)
             783 (utf8)
                            { "{Режим доступу}" }
                      { curlanguage "russian" =
             784
                               { "{\CYRR\cyre\cyrzh\cyri\cyrm\ \cyrd\cyro\cyrs\cyrt\cyru\cyrp\cyra}" }
             785 (!utf8)
             786 (utf8)
                               { "{Режим доступа}" }
             787
                          { curlanguage "german" =
                             { "{online; abgerufen}" }
             788
                             { curlanguage "french" =
             789
                                 { "Mode d'acc\'{e}s" }
             790
                                 { "language is not defined: " curlanguage " in bbl.url" * * warning$ "online; accessed" }
             791
                             if$}
             792
             793
                          if$}
             794
                      if$}
             795
                   if$}
             796 if$}
bbl.urldate Added in version 2012.01.15.
             797 FUNCTION {bbl.urldate}
```

```
798 { curlanguage "english" =
                    {"online; accessed"}
                    { curlanguage "ukrainian" =
                            801 (!utf8)
                            { "{дата звернення}" }
              802
                 (utf8)
                       { curlanguage "russian" =
              803
                               804 (!utf8)
              805
                 (utf8)
                               { "{дата обращения}" }
              806
                          { curlanguage "german" =
                             { "{online; abgerufen}" }
              807
                             { curlanguage "french" =
              808
                                 { "{en ligne; acc\'{e}d\'{e}}}" }
              809
                                 { "language is not defined: " curlanguage " in bbl.urldate" * * warning$ "online; accessed"
              810
                             if$}
              811
                          if$}
              812
                       if$}
              813
                    if$}
              814
              815 if$}
              816
bbl.techreport
              817 FUNCTION {bbl.techreport}
              818 { curlanguage "english" =
                    { "Rep." }
                    { curlanguage "german" =
              820
              821
                       { "Bericht" }
                       { curlanguage "russian" =
              822
              823 (!utf8)
                               { "{\cyr\CYRO\cyrt\cyrch\cyre\cyrt}" }
              824 (utf8)
                               { "{Отчет}" }
              825
                          { "language is not defined: " curlanguage " in bbl.techrep" * * warning$ "Rep." }
              826
                       if$}
              827
                    if$}
              828 if$}
              829
 bbl.mathesis
              830 FUNCTION {bbl.mathesis}
              831 { curlanguage "english" =
                    { "Master's thesis" }
              832
                    { curlanguage "german" =
              833
                       { "diss.~mag." }
              834
                       { curlanguage "russian" =
              835
              836 (!utf8)
                              { "{\cyr\cyrk\cyrv\cyra\cyrl\cyri\cyri\cyri\cyrk\cyra\cyrc\cyri"
              837 (!utf8)
                                "\cyro\cyrn\cyrn\cyra\cyrya\ \cyrr\cyra\cyrb\cyro\cyrt\cyra\ " *
              838 (!utf8)
                                "\cyrm\cyra\cyrg\cyri\cyrs\cyrt\cyrr\cyra}" * }
              839 (utf8)
                               { "{квалификационная работа магистра}" }
                          { "language is not defined: " curlanguage " in bbl.mthesis" * * warning$ "Master's thesis" }
              840
                       if$}
              841
                    if$}
              842
              843 if$}
              844
```

```
bbl.phdthesis
                 845 FUNCTION {bbl.phdthesis}
                 846 { curlanguage "english" =
                       { "Ph.\,D. thesis" }
                 847
                       { curlanguage "german" =
                 848
                           { "diss.~Ph.\,D." }
                 849
                           { curlanguage "russian" =
                 850
                 851 (!utf8)
                                    { "{\cyr\cyrd\cyri\cyrs.\ \ldots\ \cyrk\cyra\cyrn\cyrd. "
                 852 (!utf8)
                                      "\cyrn\cyra\cyru\cyrk}" * }
                                   { "{дис.\ \ldots\ канд.\ наук}" }
                 853 (utf8)
                              { curlanguage "french" =
                 854
                                { "th\'{e}se de doctorat" }
                 855
                                { "language is not defined: " curlanguage " in bbl.phdthesis" * * warning$ "Ph.\,D. thesis" }
                 856
                 857
                              if$}
                 858
                 859
                       if$}
                 860 if$}
                 861
  bbl.docthesis
                 862 FUNCTION {bbl.docthesis}
                 863 { curlanguage "english" =
                       { "dr.\,sci. dissertation" }
                 864
                 865
                        { curlanguage "german" =
                           { "diss.~dr." }
                 866
                           { curlanguage "russian" =
                 867
                 868 (!utf8)
                                    { "{\cyr\cyrd\cyri\cyrs.\ \ldots\ \cyrd-\cyrr\cyra\ "
                 869 (!utf8)
                                      "\cyrn\cyra\cyru\cyrk}" * }
                 870 (utf8)
                                   { "{дис.\ \ldots\ д-ра наук}" }
                 871
                              { "language is not defined: " curlanguage " in bbl.docthesis" * * warning$ "Dr.\,Sci. dissertation"
                 872
                           if$}
                       if$}
                 873
                 874 if$}
                 875
 bbl.nnoaddress
                 876 FUNCTION {bbl.nnoaddress}
                 877 { curlanguage "english" =
                       { "S.\ 1." }
                        { curlanguage "russian" =
                 880 (!utf8)
                                { "{\cyr\CYRB.\ \cyrm.}" }
                                { "{B.\ M.}" }
                 881
                           { "language is not defined: " curlanguage " in bbl.nnoaddress" * * warning$ "S.\ 1." }
                 882
                 883
                       if$}
                 884 if$}
                 885
bbl.nopublisher
                 886 FUNCTION {bbl.nopublisher}
                 887 { curlanguage "english" =
                       { "s.\ n." }
```

```
{ curlanguage "russian" =
                                { "{\cyr\cyrb.\ \cyri.}" }
                                { "{6.\ и.}" }
                  891 (utf8)
                            { "language is not defined: " curlanguage " in bbl.nnopublisher" * * warning$ "s.\ n." }
                  892
                  893
                        if$}
                  894 if$}
                  895
bbl.nnopublisher
                  896 FUNCTION {bbl.nnopublisher}
                  897 { curlanguage "english" =
                        { "S.\ n." }
                        { curlanguage "russian" =
                  900 (!utf8)
                                { "{\cyr\CYRB.\ \cyri.}" }
                  901~\langle \text{utf8} \rangle
                                { "{Б.\ и.}" }
                            { "language is not defined: " curlanguage " in bbl.nnopublisher" * * warning$ "S.\ n." }
                  902
                  903
                        if$}
                  904 if$}
  bbl.media.text
                  906 FUNCTION {bbl.media.text}
                  907 { curlanguage "english" =
                        { "Text" }
                       { curlanguage "russian" = curlanguage "ukrainian" = or
                                { "{\cyr\CYRT\cyre\cyrk\cyrs\cyrt}" }
                  910 (!utf8)
                                { "{Tekct}" }
                  911 (utf8)
                            { "language is not defined: " curlanguage " in bbl.media" * * warning$ "Text" }
                  913
                        if$}
                  914 if$}
                  915
l.media.eresource
                  916 FUNCTION {bbl.media.eresource}
                  917 { curlanguage "english" =
                        { "Electronic resource" }
                        { curlanguage "russian" =
                                 { "{\cyr\CYREREV\cyr1\cyre\cyrt\cyrr\cyro\cyrn\cyrn\cyrn\cyrery\cyrishrt\ "
                  920 (!utf8)
                  921 (!utf8)
                                   "\cyrr\cyre\cyrs\cyru\cyrr\cyrs}" * }
                                { "{Электронный ресурс}" }
                  922 (utf8)
                            { curlanguage "ukrainian" =
                  923
                  924 \langle !utf8 \rangle
                                   925 (!utf8)
                                     "\cyrr\cyre\cyrs\cyru\cyrr\cyrs}" * }
                  926 (utf8)
                                   { "{Електронний ресурс}" }
                              { "language is not defined: " curlanguage " in bbl.media" * * warning$ "Electronic resource" }
                  927
                            if$}
                  928
                        if$}
                  929
                  930 if$}
                  931
bbl.media.online
                  932 FUNCTION {bbl.media.online}
```

```
933 { curlanguage "english" =
                    { "Electronic resource online" }
                    { curlanguage "russian" =
                             { "{\cyr\CYREREV\cyr1\cyre\cyrt\cyrr\cyrr\cyrn\cyrn\cyrn\cyrery\cyrishrt\ "
             936 (!utf8)
                               "\cyrr\cyre\cyrs\cyru\cyrr\cyrs\ \cyro\cyrn\cyra\cyra\cyrishrt\cyrn\" * }
             937 (!utf8)
             938~\langle \text{utf8} \rangle
                            { "{Электронный ресурс онлайн}" }
                       { curlanguage "ukrainian" =
             939
             940 (!utf8)
                              941 (!utf8)
                                 "\cyrr\cyre\cyrs\cyru\cyrr\cyrs\ \cyro\cyrn\cyr1\cyra\cyrishrt\cyr}" * }
                              { "{Електронний ресурс онлайн}" }
             942 (utf8)
                         { "language is not defined: " curlanguage " in bbl.media" * * warning$ "Electronic resource" }
             943
                       if$}
             944
             945
                    if$}
             946 if$}
             947
   bbl.chief
             948 FUNCTION {bbl.chief}
             949 { curlanguage "english" =
                    { "chief" }
             950
                    { curlanguage "russian" =
                            { "\cyrr\cyru\cyrk." }
             952 (!utf8)
                            { "{pyk.}" }
             953 (utf8)
                       { curlanguage "ukrainian" =
             954
             955 (!utf8)
                              { "\cyrr\cyru\cyrk." }
                              { "{pyk.}" }
             956 (utf8)
             957
                         { "language is not defined: " curlanguage " in bbl.chief" * * warning$ "chief" }
             958
             959
                    if$}
             960 if$}
             961
bbl.executor
             962 FUNCTION {bbl.executor}
             963 { curlanguage "english" =
                   { "executor" }
             964
                    { curlanguage "russian" =
             965
                            { "{\cyr\cyri\cyrs\cyrp\cyro\cyrl\cyrn.}" }
             966 (!utf8)
             967 (utf8)
                            { "{исполн.}" }
             968
                       { curlanguage "ukrainian" =
             969 (!utf8)
                              { "{\cyr\cyrv\cyri\cyrk\cyro\cyrn\cyra\cyrv\cyre\cyrc\cyrsftsn}" }
                              { "{виконавець}" }
             970 (utf8)
                         { "language is not defined: " curlanguage " in bbl.executor" * * warning$ "executor" }
             971
                       if$}
             972
             973
                    if$}
             974 if$}
             975
  bbl.media
             976 FUNCTION {bbl.media}
             977 { media "online" =
                   { bbl.media.online }
```

```
{ media "eresource" =
               979
               980
                        { bbl.media.eresource }
               981
                        { bbl.media.text }
               982
                     if$}
               983 if$}
               984
     bbl.req
               985 FUNCTION {bbl.req}
               986 {
                    curlanguage "english" =
               987
                       { "req." }
               988
                       { curlanguage "german" =
               989
                         { "ang." }
               990
                         { curlanguage "russian" =
               991
               992 (!utf8)
                                 { "{\cyr\cyrz\cyra\cyrya\cyrv\cyrl.}" }
               993 \langle utf8 \rangle
                                 { "{заявл.}" }
                           { "language is not defined: " curlanguage " in bbl.req" * * warning$ "req" }
               994
               995
                         if$
                         }
               996
               997
                       if$
               998
                       }
                    if$
               999
              1000 }
              1001
    bbl.publ
              1002 FUNCTION {bbl.publ}
              1003 {
                    curlanguage "english" =
              1004
                       { "publ." }
              1005
                       { curlanguage "german" =
              1006
                         { "ausg." }
              1007
                         { curlanguage "russian" =
              1008
                                 { "{\cyr\cyro\cyrp\cyru\cyrb\cyrl.}" }
              1009 (!utf8)
              1010~\langle \text{utf8} \rangle
                                 { "{опубл.}" }
              1011
                           { "language is not defined: " curlanguage " in bbl.publication" * * warning$ "publication" }
                         if$
              1012
              1013
                         }
              1014
                       if$
                       }
              1015
                    if$
              1016
              1017 }
              1018
bbl.priority
              1019 FUNCTION {bbl.priority}
              1020 {
                    curlanguage "english" =
              1021
              1022
                       { "priority" }
                       { curlanguage "german" =
              1023
              1024
                         { "Prioritat" }
```

```
{ curlanguage "russian" =
         1025
                             { "{\cyr\cyrr\cyri\cyro\cyrr\cyri\cyrt\cyre\cyrt}" }
         1026 (!utf8)
         1027 (utf8)
                             { "{приоритет}" }
                       { "language is not defined: " curlanguage " in bbl.priority" * * warning$ "priority" }
         1028
                     if$
         1029
                     }
         1030
                  if$
         1031
         1032
                  }
         1033
                if$
         1034 }
         1035
                         New in version 1.2k.
bbl.jan
bbl.feb _{1036} FUNCTION {bbl.jan}
bbl.mar 1037 { curlanguage "english" =
                 {"Jan."}
bbl.apr 1038
                 { curlanguage "ukrainian" =
bbl.may 1039
bbl.jun1040~\langle !utf8\rangle
                           {"\CYRS\cyrii\cyrch."}
bbl.jul^{1041} \langleutf8\rangle
                          {"Січ."} % Січень
                     { curlanguage "russian" =
{\tt bbl.aug}\ ^{1042}
bbl.sep ^{1043} \langle !utf8 \rangle
                              { "\CYRYA\cyrn\cyrv." }
bbl.sep 1044 \langle utf8 \rangle bbl.oct 1045
                              { "Янв." }
                        { curlanguage "german" =
\texttt{bbl.nov}_{1046}^{\text{loc}}
                            { "Jan." } % Januar
{\tt bbl.dec}_{\ 1047}
                            { "language is not defined: bbl.jan for " curlanguage * warning$ "Jan." }
         1048
                        if$}
         1049
                     if$}
         1050
                 if$}
         1051 if$}
         1052
         1053 FUNCTION {bbl.feb}
         1054 { curlanguage "english" =
         1055
                 {"Feb."}
         1056
                 { curlanguage "ukrainian" =
         _{1057}~\langle !utf8\rangle
                           {"\CYRL\cyryu\cyrt."}
         1058 (utf8)
                          {"Лют."} % Лютий
                     { curlanguage "russian" =
         1059
                              { "\CYRF\cyre\cyrv\cyrr." }
         1060 (!utf8)
         1061 (utf8)
                              { "Фев." }
                        { curlanguage "german" =
         1062
                            {"Feb."} % Februar
         1063
                            {"language is not defined: bbl.feb for " curlanguage * warning$ "Feb."}
         1064
         1065
                        if$}
         1066
                     if$}
         1067
                 if$}
         1068 if$}
         1069
         1070 FUNCTION {bbl.mar}
         1071 { curlanguage "english" =
                 {"Mar."}
         1072
         1073
                 { curlanguage "ukrainian" =
```

```
1074 (!utf8)
                {"\CYRB\cyre\cyrr."}
1075 (utf8)
                {"Бер."} % Березень
          { curlanguage "russian" =
                       { "\CYRM\cyra\cyrr\cyrt" }
1077 (!utf8)
                      { "Mapr" }
1078 (utf8)
              { curlanguage "german" =
1079
                 {"März"} % März
1080
1081
                 {"language is not defined: bbl.mar for " curlanguage * warning$ "Mar."}
1082
          if$}
1083
1084
       if$}
1085 if$}
1086
1087 FUNCTION {bbl.apr}
1088 { curlanguage "english" =
       {"Apr."}
       { curlanguage "ukrainian" =
1090
1091 (!utf8)
                {"\CYRK\cyrv\cyrii\cyrt."}
1092 (utf8)
                {"Квіт."} % квітень
          { curlanguage "russian" =
1093
                       { "\CYRA\cyrp\cyrr." }
1094 (!utf8)
                      { "Amp." }
1095 (utf8)
              { curlanguage "german" =
1096
1097
                 {"Apr."} % April
                 { "language is not defined: bbl.apr for " curlanguage * warning$ "Apr." }
1098
              if$}
1099
          if$}
1100
1101
       if$}
1102 if$}
1103
1104 FUNCTION {bbl.may}
1105 { curlanguage "english" =
       {"May"}
1106
1107
       { curlanguage "ukrainian" =
1108 (!utf8)
                {"\CYRT\cyrr\cyra\cyrv."}
1109 (utf8)
                {"Трав."} % травень
          { curlanguage "russian" =
1110
                      { "\CYRM\cyra\cyrishrt" }
1111 (!utf8)
1112 \langle \mathsf{utf8} \rangle
                      { "Май" }
              { curlanguage "german" =
1113
1114
                 {"Mai"}
1115
                 { "language is not defined: bbl.may for " curlanguage * warning$ "May" }
              if$}
1116
1117
          if$}
       if$}
1118
1119 if$}
1120
1121 FUNCTION {bbl.jun}
1122 { curlanguage "english" =
       {"June"}
1123
```

```
{ curlanguage "ukrainian" =
1125 (!utf8)
                 {"\CYRCH\cyre\cyrr."}
1126 (utf8)
                {"Чер."} % червень
           { curlanguage "russian" =
1127
1128 (!utf8)
                       { "\CYRI\cyryu\cyrn\cyrsftsn" }
_{1129}~\langle \text{utf8} \rangle
                       { "Июнь" }
              { curlanguage "german" =
1130
1131
                  {"Juni"}
1132
                  { "language is not defined: bbl.jun for " curlanguage * warning$ "June" }
              if$}
1133
1134
           if$}
1135
       if$}
1136 if$}
1137
1138 FUNCTION {bbl.jul}
1139 { curlanguage "english" =
       {"July"}
1140
       { curlanguage "ukrainian" =
1141
_{1142}~\langle !utf8\rangle
                 {"\CYRL\cyri\cyrp."}
1143 (utf8)
                {"Липень"} %Липень
           { curlanguage "russian" =
1144
                       { "\CYRI\cyryu\cyrl\cyrsftsn" }
1145 (!utf8)
                       { "Июль" }
1146 (utf8)
              { curlanguage "german" =
1147
                  {"Juli"}
1148
                  { "language is not defined: bbl.jul for " curlanguage * warning$ "July" }
1149
              if$}
1150
1151
           if$}
1152
       if$}
1153 if$}
1154
1155 FUNCTION {bbl.aug}
1156 { curlanguage "english" =
1157
       {"Aug."}
       { curlanguage "ukrainian" =
1158
1159 (!utf8)
                 {"\CYRS\cvre\cvrr."}
                {"Серпень"} % Серпень
1160 (utf8)
           { curlanguage "russian" =
1161
                       { "\CYRA\cyrv\cyrg\." }
1162 (!utf8)
                       { "ABr." }
1163 (utf8)
              { curlanguage "german" =
1164
1165
                  {"Aug."} % August
                  { "language is not defined: bbl.aug for " curlanguage * warning$ "Aug." }
1166
1167
              if$}
           if$}
1168
       if$}
1169
1170 if$}
1171
1172 FUNCTION {bbl.sep}
1173 { curlanguage "english" =
```

```
{"Sep."}
1174
       { curlanguage "ukrainian" =
1176 (!utf8)
                {"\CYRV\cyre\cyrr."}
_{1177}\;\langle \text{utf8}\rangle
                {"Вер."} % вересень
          { curlanguage "russian" =
                      { "\CYRS\cyre\cyrn\cyrt." }
1179 (!utf8)
                      { "Сент." }
1180 (utf8)
1181
              { curlanguage "german" =
1182
                 {"Sep."} % September
                 { "language is not defined: bbl.sep for " curlanguage * warning$ "Sep." }
1183
1184
              if$}
          if$}
1185
1186
       if$}
1187 if$}
1189 FUNCTION {bbl.oct}
1190 { curlanguage "english" =
       {"Oct."}
1191
       { curlanguage "ukrainian" =
1192
1193 (!utf8)
                {"\CYRZH\cyro\cyrn."}
                {"Жов."} % жовтень
1194 (utf8)
1195
          { curlanguage "russian" =
1196 (!utf8)
                       { "\CYRO\cyrk\cyrt." }
                      { "OKT." }
1197 (utf8)
              { curlanguage "german" =
1198
                 {"Okt."} % Oktober
1199
                 { "language is not defined: bbl.oct for " curlanguage * warning$ "Oct." }
1200
1201
              if$}
1202
           if$}
       if$}
1203
1204 if$}
1205
1206 FUNCTION {bbl.nov}
1207 { curlanguage "english" =
       {"Nov."}
       { curlanguage "ukrainian" =
1209
                {"\CYRL\cyri\cyrs."}
1210 (!utf8)
                {"Лис."} % листопад
1211 (utf8)
          { curlanguage "russian" =
1212
                      { "\CYRN\cyro\cyrya\cyrb." }
1213 (!utf8)
                      { "Нояб." }
1214 (utf8)
1215
              { curlanguage "german" =
                 {"Nov."} % November
1216
                 { "language is not defined: bbl.nov for " curlanguage * warning$ "Nov." }
1217
              if$}
1218
          if$}
1219
1220
       if$}
1221 if$}
1223 FUNCTION {bbl.dec}
```

```
1224 { curlanguage "english" =
                        {"Dec."}
                         { curlanguage "ukrainian" =
                 1226
                                  {"\CYRG\cyrr\cyru\cyrd."}
                 1227 (!utf8)
                 1228 (utf8)
                                 {"Груд."} % грудень
                            { curlanguage "russian" =
                 1229
                                        { "\CYRD\cyre\cyrk." }
                 1230 (!utf8)
                 1231 (utf8)
                                        { "Дек." }
                 1232
                               { curlanguage "german" =
                                  {"Dez."} % Dezember
                 1233
                                  { "language is not defined: bbl.dec for " curlanguage * warning$ "Dec." }
                 1234
                               if$}
                 1235
                            if$}
                 1236
                        if$}
                 1237
                 1238 if$}
                          New in version 1.2k.
      bbl.arxiv
      bbl.jstor 1239 FUNCTION {bbl.arxiv}
     bbl.pubmed 1240 { curlanguage "english" =
bbl.googlebooks 1241
                        { "ArXiv" }
        \verb|bbl.hdl| 1242
                        { curlanguage "ukrainian" =
                 1243 \langle !utf8 \rangle
                                  {"ArXiv"}
                 1244 (utf8)
                                 {"ArXiv"}
                            { curlanguage "russian" =
                 1245
                 1246 (!utf8)
                                     { "ArXiv" }
                 1247 (utf8)
                                    { "ArXiv" }
                               { curlanguage "german" =
                 1248
                                  { "ArXiv" }
                 1249
                                  { "language is not defined: bbl.arxiv for " curlanguage * warning$ "ArXiv" }
                 1250
                 1251
                               if$}
                 1252
                            if$}
                 1253
                        if$}
                 1254 if$}
                 1255
                 1256 FUNCTION {bbl.jstor}
                 1257 { curlanguage "english" =
                        { "JSTOR" }
                         { curlanguage "ukrainian" =
                 1260 (!utf8)
                                  {"JSTOR"}
                                 {"JSTOR"}
                 1261 (utf8)
                            { curlanguage "russian" =
                 1262
                                     { "JSTOR" }
                 1263 (!utf8)
                                    { "JSTOR" }
                 1264 (utf8)
                               { curlanguage "german" =
                 1265
                 1266
                                  { "JSTOR" }
                 1267
                                  { "language is not defined: bbl.jstor for " curlanguage * warning$ "JSTOR" }
                 1268
                               if$}
                            if$}
                 1269
                        if$}
                 1270
                 1271 if$}
                 1272
```

```
1273 FUNCTION {bbl.pubmed}
1274 { curlanguage "english" =
       { "PubMed" }
       { curlanguage "ukrainian" =
1276
                {"PubMed"}
1277 (!utf8)
1278 (utf8)
                {"PubMed"}
          { curlanguage "russian" =
1279
1280 (!utf8)
                   { "PubMed" }
1281 (utf8)
                   { "PubMed" }
1282
              { curlanguage "german" =
                 { "PubMed" }
1283
                 { "language is not defined: bbl.pubmed for " curlanguage * warning$ "PubMed" }
1284
              if$}
1285
1286
          if$}
1287
       if$}
1288 if$}
1289
1290 FUNCTION {bbl.googlebooks}
1291 { curlanguage "english" =
       { "Google Books" }
1292
1293
       { curlanguage "ukrainian" =
1294 (!utf8)
                {"Google \CYRK\cyrn\cyri\cyrg\cyri"}
                {"Google Книги"}
1295 (utf8)
          { curlanguage "russian" =
1296
1297 (!utf8)
                   { "Google \CYRK\cyrn\cyri\cyrg\cyri" }
                   { "Google Книги" }
1298 (utf8)
              { curlanguage "german" =
1299
1300
                 { "Google Books" }
1301
                 { "language is not defined: bbl.googlebooks for " curlanguage * warning$ "Google Books" }
              if$}
1302
          if$}
1303
       if$}
1304
1305 if$}
1306
1307 FUNCTION {bbl.hdl}
1308 { curlanguage "english" =
       { "Handle.Net" }
1309
       { curlanguage "ukrainian" =
1310
                {"Handle.Net"}
1311 (!utf8)
1312 (utf8)
                {"Handle.Net"}
          { curlanguage "russian" =
1314 (!utf8)
                   { "Handle.Net" }
                   { "Handle.Net" }
1315 (utf8)
              { curlanguage "german" =
1316
                 { "Handle.Net" }
1317
                 { "language is not defined: bbl.hdl for " curlanguage * warning$ "Handle.Net" }
1318
1319
              if$}
1320
          if$}
       if$}
1321
1322 if$}
```

### 6.6 Aliases

Aliases to some fields are introduced with the help of field1.or.field2 functions.

dress.or.location

Pushes address field if not empty; otherwise pushes location value even if it is empty.

```
1323 %FUNCTION {address.or.location}
1324 %{
1325 %
       address empty$
1326 %
         { location empty$
1327 %
            'skip$
1328 %
            { location }
1329 %
         if$ }
1330 %
         { address }
1331 % if$
1332 %}
1333 FUNCTION {address.or.location}
1334 {
1335
      address empty$
1336
        { location }
        { address }
1337
1338
      if$
1339 }
1340
```

itycode.or.number

Pushed specialitycode value if not empty; otherwise returns number value even if the latter is empty.

```
1341 FUNCTION {specialitycode.or.number}
1342 {
1343    specialitycode empty$
1344    { number }
1345    { specialitycode }
1346    if$
1347 }
```

itution.or.school

Pushes institution value if not empty; otherwise returns school value even if the latter is empty.

```
1349 FUNCTION {institution.or.school}
1350 {
1351   institution empty$
1352   { school}
1353      { institution }
1354   if$
1355 }
```

# 6.7 Formatting dates

(NB: NEEDS to be located before natible labels. This is experimental section. Needs to be upgraded.)

date.to.year

New in version 1.2k. Extracts year from date. Currently, only the date of the form either YYYY-MM-DD, or YYYY-MM, or YYYY can be processed as expected. Returns date if it is empty or has wrong format.

```
1356 FUNCTION {date.to.year}
               1357 {
               1358
                     date empty$
                       { date }
               1359
               1360
               1361 (*debug)
                          "date.to.year::: date in " cite$ * " =" * date * warning$
               1362
                          "date.to.year::: length of date is " date text.length$ int.to.str$ * warning$
               1363
               1364 (/debug)
                         date text.length$ #3 >
               1365
               1366
                              date #1 #4 substring$ 'y :=
               1367
               1368 \langle *debug \rangle
                              "::::: y=" y * warning$
               1369
               1370 (/debug)
               1371
               1372
               1373
                              "wrong format of date in " cite$ * ": date=" * date * warning$
               1374
                              date
               1375
               1376
               1377
                         if$
               1378
               1379
                     if$
               1380 }
               1381
                     New in version 1.2k. Extracts month from date. Returns date if it is empty or has wrong
date.to.month
                format.
               1382 FUNCTION {date.to.month}
               1383 {
               1384
                     date empty$
               1385
                       { date }
               1386
                       {
               1387 (*debug)
                          "date.to.month::: date in " cite$ * " =" * date * warning$
               1388
               1389
                          "date.to.month::: length of date is " date text.length$ int.to.str$ * warning$
               1390 (/debug)
                         date text.length$ #6 >
               1391
               1392
                              date #6 #2 substring$ 'm :=
               1393
               1394 (*debug)
               1395
                              "::::: m=" m * warning$
               1396 (/debug)
               1397
               1398
                           }
               1399
                              "wrong format of date in " cite$ * ": date=" * date * warning$
               1400
               1401
                              date
               1402
                           }
```

1403

if\$

```
1406 }
                  1407
                        New in version 1.2k. Extracts year from date. Returns date if it is empty or has wrong format.
      date.to.day
                  1408 FUNCTION {date.to.day}
                  1409 {
                  1410
                         date empty$
                           { date }
                  1411
                           {
                  1412
                  1413 (*debug)
                             "date.to.day::: date in " cite$ * " =" * date * warning$
                  1414
                             "date.to.day::: length of date is " date text.length$ int.to.str$ * warning$
                  1415
                  1416 (/debug)
                             date text.length$ #10 =
                  1417
                  1418
                                 date #9 #2 substring$ 'd :=
                  1419
                  1420 (*debug)
                                 ":::::: d=" d * warning$
                  1421
                  1422 (/debug)
                  1423
                               }
                  1424
                  1425
                                 "wrong format of date in " cite$ * ": date=" * date * warning$
                  1426
                  1427
                                 date
                  1428
                  1429
                             if$
                  1430
                        if$
                  1431
                  1432 }
                  1433
                        New in version 1.2k. Returns year if not empty; otherwise call date.to.year.
r.or.date.to.year
                        (NB: BOЗМОЖНО, ПОДОБНЫЕ ФУНКЦИИ ЛУЧШЕ назвать this.year.)
                  1434 FUNCTION {year.or.date.to.year}
                  1435 {
                  1436
                        year empty$
                           {
                  1437
                  1438 (*debug)
                             "year.or.date.to.year::: empty year in " cite$ * warning$
                  1439
                  1440 (/debug)
                  1441
                             date.to.year
                  1442
                           { year }
                  1443
                        if$
                  1444
                  1445 }
```

}

if\$

 $1404\\1405$ 

1446

format.month Reads month field and translate standard English abbreviation of months (as defined by

```
jan, feb, etc. macros below) to current language. \langle NB: HAДO \ ИЗОБРЕСТИ \ ЧТО-ТО \ BPOДЕ month.or.date.to.month (this.month). <math>\rangle
```

```
1447 FUNCTION {format.month}
            1448 { month empty$
                    { "" }
            1449
            1450
                    { month "Jan." =
            1451
                         { bbl.jan }
                    { month "Feb." =
            1452
                         { bbl.feb }
            1453
                    { month "Mar." =
            1454
                         { bbl.mar }
            1455
                    { month "Apr." =
            1456
            1457
                         { bbl.apr }
                    { month "May" =
            1458
                         { bbl.may }
            1459
                    { month "Jun." =
            1460
                         { bbl.jun }
            1461
                    { month "Jul." =
            1462
            1463
                         { bbl.jul }
            1464
                    { month "Aug." =
            1465
                         { bbl.aug }
                    { month "Sep." =
            1466
            1467
                         { bbl.sep }
                    { month "Oct." =
            1468
                         { "OKT." }
            1469
            1470
                    { month "Nov." =
                         { bbl.nov }
            1471
                    { month "Dec." =
            1472
                         { bbl.dec }
            1473
            1474
                           "unknown month in " cite$ * warning$
            1475
            1476
                           month
            1477
                         if$}if$}if$}if$}if$}if$}if$}if$}if$}if$
            1478
                    if$
            1479
            1480 }
format.date
            1481 FUNCTION {format.date}
            1482 %{ year empty$
            1483 { year.or.date.to.year empty$
            1484
                    { month empty$
            1485
                         { "" }
                         { "there's a month but no year in " cite$ * warning$
            1486
                           format.month
            1487
                         }
            1488
            1489
                       if$
            1490
            1491
                    { month empty$
            1492 %
                          'year
```

## 6.8 Formatting names

Declare functions to format separate elements of a bibliographic reference.

### 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 (which trims first name to first letter) when option utf8 is in effect; in the latter caase ff primitive is called instead.

```
1501 INTEGERS { nameptr namesleft numnames } 1502
```

fmt.names.first
fmt.names.three
fmt.names.all

New version of functions formating names. Function name indicates number of persons printed. These functions look for last literal in the stack which should not be empty; hence, they should be called by other functions that checks if the last literal is empty.

```
1503 FUNCTION {fmt.names.first}
1504 { #1
                   "{vv~}{11}{~jj}{,~f.}"
1505 (strict&!utf8)
1506 (strict & utf8)
                   "{vv~}{11}{~jj}{,~ff}"
1507 (!strict&!utf8)
                    "{vv~}{11}{~jj}{~f.}"
                    "{vv~}{11}{~jj}{~ff}"
1508 (!strict & utf8)
      format.name$
1509
1510 }
1511
1512 FUNCTION {fmt.names.three}
1513 {
1514
      's :=
1515
      #1 'nameptr :=
1516
      s num.names$ 'numnames :=
      numnames 'namesleft :=
1517
      { namesleft #0 > }
1518
      { s nameptr
1520 (strict&!utf8)
                        "{vv~}{11}{~jj}{,~f.}"
1521 (strict & utf8)
                        "{vv~}{11}{~jj}{,~ff}"
_{1522} (!strict&!utf8)
                        "{vv~}{11}{~jj}{~f.}"
                         "{vv~}{11}{~jj}{~ff}"
1523 (!strict & utf8)
        format.name$ 't :=
1524
1525
        nameptr #1 >
1526
           { nameptr #4 = numnames #4 > and
1527
               { "others" 't :=
1528
                  #1 'namesleft :=
1529
```

```
'skip$
1530
1531
             if$
1532
             namesleft #1 >
               { ", " * t * }
1533
               { t "others" = t "~others" = or
1534
                          { " " * bbl.etal * }
1535 (!strict)
                          { " " * bbl.etal bracketise *}
1536 \langle strict \rangle
                    { ", " * t * }
1537
               if$
1538
1539
             if$
1540
           }
1541
           't
1542
        if$
1543
1544
        nameptr #1 + 'nameptr :=
1545
        namesleft #1 - 'namesleft :=
1546
1547
      while$
1548 }
1549
1550 FUNCTION {fmt.names.all}
1551 { 's :=
1552 #1 'nameptr :=
      s num.names$ 'numnames :=
1553
      numnames 'namesleft :=
1554
        { namesleft #0 > }
1555
        { s nameptr
1556
           ""\{vv^{\sim}\}\{11\}" format.name$ 't :=
1557
                       "{vv~}{11}{~ii}{,~f.}"
1558 (strict&!utf8)
1559 (strict & utf8)
                        "{vv~}{11}{~jj}{,~ff}"
1560 (!strict&!utf8)
                        "{vv~}{11}{~jj}{~f.}"
1561 (!strict & utf8)
                        "{vv~}{11}{~jj}{~ff}"
           format.name 't :=
1562
1563
           nameptr #1 >
             { namesleft #1 >
1564
1565
                 { ", " * t * }
                  { numnames #2 > curlanguage "english" = and
1566
                      { "," * }
1567
                      'skip$
1568
                    if$
1569
                    t "others" = t "~others" = or
1570
                            { " " * bbl.etal * }
1571 (!strict)
                            { " " * bbl.etal bracketise *}
1572 (strict)
1573
                      { " " bbl.and " " * * * t * }
                    if$
1574
                 }
1575
1576
               if$
1577
             }
1578
             'nt
           if$
1579
```

```
1580 nameptr #1 + 'nameptr :=
1581 namesleft #1 - 'namesleft :=
1582 }
1583 while$
1584 }
```

## 6.9 Formatting names (cont.)

format.author

ormat.bookauthors

Formats a list of authors for the heading part of a bibliographic record by appying either fmt.names.first, fmt.names.three or fmt.names.all to the field author, if it is not empty; otherwise it pushes empty author. This allows making a check as in the case of format.author "author" output.check.

 $\langle \mathbf{M} : \mathbf{O}$ днако заметим, что все другие функции format.... пустое поле замещают пустой строкой. $\rangle$ 

```
1586 %FUNCTION {format.author}
1587 %{ author empty$
         %%%{ "" } % < v.1.2k
1588 %
1589 %
         { author } % v.1.2k
         %{ author format.names emphasize} % 1st if strict, <=3 otherwise</pre>
1590 %
1591 %%<long>
                 { author fmt.names.all emphasize}
1592 %%<!long&strict>
                          { author fmt.names.first emphasize}
1593 %%<!long&!strict>
                          { author fmt.names.three emphasize}
1594 % if$
1595 %}
1596 FUNCTION {format.author}
1597 {
      author empty$
1598
        { author } %%%'skip$
1599
1600 (*long)
1601
        { author fmt.names.all }
1602 (/long)
1603 (*!long)
        {author num.names$ #4 <
1604
1605
                  author fmt.names.first
1606 (strict)
1607 (!strict)
                  author fmt.names.three
1608
          { "" } %%%'skip$
1609
1610
        if$}
1611 (/!long)
1612
      if$
1613 }
1614
      Is used only once by bookauthor.head called in inbook entry. (NB: Not used anymore!)
1615 (*debug)
1616 %FUNCTION {format.bookauthors}
1617 %{ bookauthor empty$
1618 %
         { "" }
1619 %
         { bookauthor format.names}% cuts to 4 persons if |!strict| option
```

```
1621 %}
                  1622 %
                  1623 (/debug)
                        Formats author to be placed after a slash in the zone of responsibility of a bibliographic
ormat.author.rest
                    record. In contrast to output.author.rest does not check number of items in the author field; it
                    is recommended to use output.author.rest instead whenever possible. (NB: Not used any more.)
                  1624 (*debug)
                  1625 FUNCTION {format.author.rest}
                  1626 {
                  1627 (*long)
                  1628
                        %% Does this work?
                         %%%skip$ % this seemed to work
                        %%% ""
                                      % this seemed to work
                  1630
                  1631 (/long)
                  1632 \langle *!long \rangle
                  1633 author empty$
                           \%\% "" } % < v.1.2k
                  1634
                           { author } % v.1.2k
                  1635
                  1636
                           { author fmt.names.three }
                  1637 if$
                  1638 (/!long)
                  1639 }
                  1640
                  1641 (/debug)
.bookauthors.rest
                  1642 FUNCTION {format.bookauthors.rest}
                  1643 { bookauthor empty$
                           { "" }
                                { bookauthor fmt.names.all emphasize }
                  1645 (long)
                  1646 (!long)
                                 { bookauthor fmt.names.three emphasize }
                  1647
                        if$
                  1648 }
                  1649
rmat.editors.rest
                  1650 FUNCTION {format.editors.rest}
                  1651 { editor empty$
                           { "" }
                                { bbl.edby "\ " * editor fmt.names.all * }
                  1653 (long)
                                 { bbl.edby "\ " * editor fmt.names.three * }
                  1654 (!long)
                  1655
                        if$
                  1656 }
format.chief.rest
                     Formats editor field for report and techreport entries.
                  1658 FUNCTION {format.chief.rest}
                  1659 { editor empty$
                           { "" }
                                { bbl.chief "\ " * editor fmt.names.all * }
```

1620 % if\$

```
1663 if$
                  1664 }
                  1665
mat.executor.rest
                  1666 FUNCTION {format.executor.rest}
                  1667 { author empty$
                           { "" }
                  1668
                                 { bbl.executor ": " * author fmt.names.all * }
                  1669 (long)
                                 { bbl.executor ": " * author fmt.names.three * }
                  1670 (!long)
                        if$
                  1672 }
                  1673
mat.compiler.rest
                  1674 FUNCTION {format.compiler.rest}
                  1675 { compiler empty$
                           { "" }
                  1676
                                 { bbl.compiler "\ " * compiler fmt.names.all * }
                  1677 (long)
                                 { bbl.compiler "\ " * compiler fmt.names.three * }
                  1678 (!long)
                  1679
                        if$
                  1680 }
                  1681
```

{ bbl.chief "\ " \* editor fmt.names.three \* }

# 6.10 Formatting natbib keys

1682 (\*natbib)

1662 (!long)

fmt.names.brief

Formats all names like fmt.names.all except that first name of every person is dropped (dropped ff and f. modifiers).

⟨№: Вероятно, нужно сократить число персон до 3х максимум. Что говорит ГОСТ? Где используется это? В метке ссылки это расгиренный список авторов после краткого списка и года в необязательном аргументе \bibitem.⟩

```
1683 FUNCTION {fmt.names.brief}
1684 { 's :=
      #1 'nameptr :=
1685
      s num.names$ 'numnames :=
1686
      numnames 'namesleft :=
1687
1688
         { namesleft #0 > }
         { s \text{ nameptr } "\{vv^*\}\{11\}" \text{ format.name$ 't :=}
1689
           nameptr #1 >
1690
             {
1691
               namesleft #1 >
1692
                 { ", " * t * }
1693
1694
1695
                    numnames #2 > curlanguage "english" = and
                      { "," * }
1696
1697
                      'skip$
                    if$
1698
                    t "others" = t "~others" = or
1699
```

```
{ " " bbl.etal * * }
1700
                      { " " bbl.and " " * * * t * }
1701
1702
                  }
1703
               if$
1704
             }
1705
             't
1706
1707
           if$
1708
           nameptr #1 + 'nameptr :=
           namesleft #1 - 'namesleft :=
1709
1710
      while$
1711
1712 }
1713
```

format.names.key

Declares function to go to left part of optional argument of \bibitem in the bibstyles generated with the option natbib. It cuts the list of person to 2 at most and drops first name of every person.

```
1714 FUNCTION {format.names.key}
1715 { 's :=
      set.language %%% уже вызвана в output.bibitem, но вроде бы нужна и здесь
1716
      s #1 "{vv~}{11}" format.name$
1717
      s num.names$ duplicate$
1718
1719
        { pop$ " " bbl.etal * * }
1720
1721
        { #2 <
1722
             'skip$
             { s \#2 "\{ff \}\{vv \}\{11\}\{ jj\}" format.name$ "others" = }
1723
                 { " " bbl.etal * * }
1724
                 { " " bbl.and " " * * * s #2 "{vv~}{11}" format.name$ * }
1725
1726
             }
1727
          if$
1728
        }
1729
      if$
1730
1731 }
```

Substitute an empty last literal in the stack (usually, author) with the key field if provided.

Used as a heading of bibliographic record of author is empty.

author.key.label

Composes a key to be used as a reference label with natbib styles. If author field is empty an attempt is made to retrieve key field. If it is also empty 3 first letters are retreived from the citation key cite\$. If author field is not empty format.names.key defined above is called.

```
1740 FUNCTION {author.key.label}
1741 { author empty$
```

```
1743
                                { cite$ #1 #3 substring$ }
                                'key
                   1744
                             if$
                   1745
                   1746
                           { author format.names.key }
                   1747
                         if$
                   1748
                   1749 }
                          These functions operate similarly but engage a different set of fields. They are called below
.editor.key.label
organization.labelby calc.short.list.
v.organization.labeI50 FUNCTION {author.editor.key.label}
                   1751 { author empty$
                   1752
                           { editor empty$
                   1753
                                { key empty$
                                    { cite$ #1 #3 substring$ }
                   1754
                                    %'key
                                                    %% causes lost of year
                   1755
                                    { "{}" key * } %% Bug in bibtex8 ??
                   1756
                                  if$
                   1757
                               }
                   1758
                                { editor format.names.key }
                   1759
                   1760
                             if$
                   1761
                   1762
                           { author format.names.key }
                   1763
                         if$
                   1764 }
                  1765
                   1766 FUNCTION {author.key.organization.label}
                   1767 { author empty$
                           { key empty$
                   1768
                                { organization empty$
                   1769
                                    { cite$ #1 #3 substring$ }
                   1770
                                    { "The " #4 organization chop.word #3 text.prefix$ }
                   1771
                                  if$
                   1772
                   1773
                   1774
                                'key
                   1775
                             if$
                   1776
                   1777
                           { author format.names.key }
                         if$
                   1778
                   1779 }
                   1780
                   1781 FUNCTION {editor.key.organization.label}
                   1782 { editor empty$
                           { key empty$
                   1783
```

{ organization empty\$

if\$ }

'key

{ cite\$ #1 #3 substring\$ }

{ key empty\$

1742

1784

1785

1786 1787

1788 1789

{ "The " #4 organization chop.word #3 text.prefix\$ }

```
if$
                1790
                1791
                        { editor format.names.key }
                1792
                      if$
                1793
                1794 }
                1795
calc.short.list
                      Calculates short.list for \bibitem label in natbib styles depending on the type of entry.
                     (NB: Нужна внимательная ревизия логики вычислений. В общем-то, она имеет значения в
                  особом случае, когда поле author пустое. >
                1796 FUNCTION {calc.short.list}
                1797 { type$ "book" = type$ "inbook" = or
                1798
                         'author.editor.key.label
                1799
                        { type$ "proceedings" =
                             'editor.key.organization.label
                1800
                1801
                             { type$ "manual" =
                1802
                                 'author.key.organization.label
                1803
                                 'author.key.label
                1804
                               if$
                            }
                1805
                1806
                          if$
                1807
                      if$
                1808
                      'short.list :=
                1809
                1810 }
                1811
     calc.label
                     «В: Вопреки названию, вычисляет только часть метки в ∏ для \bibitem. Скобка после
                  года не закрыта, так как еще может быть добавлено а, b, .... Лучше перенести весь код
                  output.bibitem.
                1812 FUNCTION {calc.label}
                1813 { calc.short.list
                1814
                      short.list
                      "("
                1815
                1816
                1817 % year duplicate$ empty$
                1818
                      year.or.date.to.year duplicate$ empty$
                      short.list key field.or.null = or
                1819
                         { pop$ "" }
                1820
                1821
                          'skip$
                1822
                      if$
                1823
                1824
                      'label :=
                1825 }
                1826
                     In case of natbib option, we need calc.long.list to compose output.bibitem, and the latter,
 calc.long.list
                  in its turn, requires some more functions.
                1827 FUNCTION {calc.long.list} %% called 1 time only
                1828 { type$ "book" = type$ "inbook" = or
                        %'format.author.editor.brief
```

```
{ author empty$
1830
1831
             { editor empty$
                 { "" }
1832
                 { editor fmt.names.brief }
1833
               if$
1834
             }
1835
             { author fmt.names.brief }
1836
1837
           if$
1838
         { type$ "proceedings" =
1839
             %'format.editor.brief
1840
             { editor empty$
1841
                 { "" }
1842
                 { editor fmt.names.brief }
1843
1844
               if$
             }
1845
             %'format.author.brief
1846
             { author empty$
1847
                 { "" }
1848
                 { author fmt.names.brief }
1849
1850
               if$
1851
           if$
1852
1853
      if$
1854
1855 }
1856
1857 (/natbib)
```

# 6.11 Output functions (continued)

address.publisher

Outputs address (or location) and publisher fields separated by colon if both fields are available; otherwise outputs that field which is not empty.

```
1858 (*!strict)
1859 FUNCTION {output.address.publisher}
1860 €
      address empty$ location empty$ and
1861
1862
         'skip$
         { address.or.location output
1863
1864
           publisher empty$
1865
             'skip$
             { new.colon }
1866
           if$
1867
        }
1868
      if$
1869
      publisher output
1870
1871 }
1872 (/!strict)
1873 (*strict)
1874 FUNCTION {output.address.publisher}
```

```
address empty$
               1876
               1877
               1878
                          bbl.nnoaddress
                          publisher empty$
               1879
                            { "~: " * bbl.nopublisher * bracketise }
               1880
                            { bracketise "~: " * publisher * }
               1881
               1882
                          if$
                        }
               1883
               1884
               1885
                          address output
                          new.colon
               1886
                          publisher empty$
               1887
                            { bbl.nopublisher bracketise }
               1888
               1889
                            { publisher }
               1890
                          if$
                        }
               1891
                      if$
               1892
               1893
                      output
               1894 }
               1895
               1896 (/strict)
                     Is called at the beginning of any entry. It sets curlanguage string variable based on langid or
output.bibitem
                 language field.
               1897 FUNCTION {output.bibitem}
               1898 {
               1899
                      set.language
               1900
                      newline$
                      "\bibitem" write$
               1901
               1902 (*natbib)
                     label extra.label * ")" *
               1903
                     calc.long.list *
               1904
                     bracketise write$
               1905
               1906 (/natbib)
                      cite$ bracify write$
                      newline$
               1908
               1909
                      "\selectlanguageifdefined" curlanguage bracify * write$
               1910
                     newline$
               1911
                     before.all 'output.state :=
               1912
               1913 }
               1914
               1915 (*natbib)
               1916 %FUNCTION {output.bibitem}
               1917 %{ newline$
               1918 % "\bibitem" write$
               1919 %% author.key.label
               1920 %% year parenthesify *
               1921 %% "; lbl:" label * *
```

1875 {

```
1922 %% "; mfn:" calc.long.list * *
1923 % label
1924 % calc.long.list *
1925 % bracketise write$
1926 % cite$ bracify write$
1927 % newline$
1928 % language empty$
1929 %
         { "english" 'curlanguage := }
1930 %
         {language 'curlanguage := }
1931 % if$
       "\selectlanguageifdefined" curlanguage bracify * write$
1932 %
1933 % newline$
1934 %
1935 % before.all 'output.state :=
1936 %}
1937
1938 (/natbib)
```

# 6.12 Formatting title, booktitle, etc.

## Important note

1939 FUNCTION {format.bvolume}

Neither bibtex.exe nor bibtex8.exe 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 applied.

```
format.bvolume
```

mat.number.series

```
1940 { volume empty$
        { "" }
1941
        { bbl.vvol volume tie.connect
1942
1943
          series empty$
1944
            'skip$
            { bbl.of spaces.around * series emphasize * }
1945
1946
          "volume and number" number either.or.check
1947
        }
1948
      if$
1949
1950 }
1951
1952 FUNCTION {format.number.series}
1953 { volume empty$
        { number empty$
1954
            { series field.or.null }
1955
            { series empty$
1956
                 { "there's a number but no series in " cite$ * warning$
1957
1958
                   bbl.nnr }
1959
                   %new.dblslash
1960
1961
                   new.sentence
```

```
1962
                                    series
                 1963
                                    bbl.nr
                 1964
                                    tie.or.space.connect}
                                if$
                 1965
                 1966
                                number tie.or.space.connect
                             }
                 1967
                           if$
                 1968
                 1969
                           "" }
                 1970
                         {
                 1971
                       if$
                 1972 }
                 1973
                       Is not currently used. (NB: Note that bbl.st, bbl.nd, bbl.rd, bbl.th are not defined.)
        eng.ord
                 1974 (*debug)
                 1975 FUNCTION {eng.ord}
                 1976 { duplicate$ "1" swap$ *
                 1977
                       #-2 #1 substring$ "1" =
                 1978
                           { bbl.th * }
                 1979
                           { duplicate$ #-1 #1 substring$
                            duplicate$ "1" =
                 1980
                               { pop$ bbl.st * }
                 1981
                               { duplicate$ "2" =
                 1982
                 1983
                                   { pop$ bbl.nd * }
                 1984
                                   { "3" =
                 1985
                                       { bbl.rd * }
                                       { bbl.th * }
                 1986
                 1987
                                     if$
                                   }
                 1988
                 1989
                                 if$
                 1990
                 1991
                            if$
                 1992
                 1993
                        if$
                 1994 }
                 1995 (/debug)
                 1996
convert.edition
                 1997 FUNCTION {convert.edition}
                 1998 { edition
                 1999 % edition extract.num "l" change.case$ 's :=
                 2000 % s "first" = s "1" = or
                 2001 %
                          { bbl.first 't := }
                          { s "second" = s "2" = or
                 2002 %
                               { bbl.second 't := }
                 2003 %
                               { s "third" = s "3" = or }
                 2004 %
                                   { bbl.third 't := }
                 2005 %
                 2006 %
                                   { s "fourth" = s "4" = or
                 2007 %
                                       { bbl.fourth 't := }
                 2008 %
                                       { s "fifth" = s "5" = or
```

```
2009 %
                                          { bbl.fifth 't := }
                2010 %
                                           { s #1 #1 substring$ is.num
                2011 %
                                               { s eng.ord 't := }
                2012 %
                                               { edition 't := }
                2013 %
                                             if$
                2014 %
                                          }
                2015 %
                                         if$
                2016 %
                                      }
                2017 %
                                    if$
                2018 %
                                if$
                2019 %
                             }
                2020 %
                           if$
                2021 %
                2022 %
                         }
                2023 % if$
                2024 % t
                2025 }
                2026
format.edition
                2027 FUNCTION {format.edition}
                2028 { edition empty$
                        { "" }
                2029
                2030
                        { output.state mid.sentence =
                2031 (!utf8)
                                  { convert.edition "1" change.case$ " " * bbl.edition * }
                                  { convert.edition "t" change.case$ " " * bbl.edition * }
                2032 (!utf8)
                2033 (utf8)
                                  { convert.edition " " * bbl.edition * }
                                  { convert.edition " " * bbl.edition * }
                2034 (utf8)
                          if$
                2035
                2036
                        }
                2037
                     if$
                2038 }
                2039
  format.pages
                2040 FUNCTION {format.pages}
                2041 { eid empty$
                2042
                        {
                2043
                          pages empty$
                            { "" }
                2044
                2045
                            { pages multi.page.check
                2046
                                 { bbl.ppages pages n.dashify tie.connect }
                2047
                                 { bbl.ppage pages tie.connect }
                2048
                               if$
                            }
                2049
                          if$
                2050
                        }
                2051
                        { eid multi.page.check
                2052
                2053
                            { bbl.ppages eid n.dashify tie.connect }
                2054
                            { bbl.ppage eid tie.connect }
                2055
                          if$
```

```
}
                   2056
                   2057
                         if$
                   2058 }
                   2059
format.pages.page
                   2060 FUNCTION {format.pages.page}
                   2061 { eid empty$
                   2062
                           { pages empty$
                   2063
                                { pagetotal empty$
                                    { "" }
                   2064
                                    { pagetotal bbl.pages tie.connect }
                   2065
                   2066
                                  if$
                   2067
                               }
                   2068
                                { format.pages}
                   2069
                             if$
                   2070
                   2071
                           { format.pages }
                   2072
                         if$
                   2073 }
                   2074
mat.vol.num.pages
                   2075 FUNCTION {format.vol.num.pages}
                   2076 { volume field.or.null
                         number empty$
                   2078
                            'skip$
                   2079
                           {
                              ", no." number tie.or.space.connect *
                   2080
                   2081
                             volume empty$
                                { "there's a number but no volume in " cite$ * warning$ }
                   2082
                   2083
                                'skip$
                   2084
                             if$
                   2085
                           }
                         if$
                   2086
                         pages empty$
                   2087
                           'skip$
                   2088
                           { duplicate$ empty$
                   2089
                   2090
                               { pop$ format.pages }
                                { ": " * pages n.dashify * }
                   2091
                   2092
                             if$
                   2093
                         if$
                   2094
                   2095 }
                   2096
    format.volume
                   2097 FUNCTION {format.volume}
                   2098 { volume empty$
                           { "" }
                   2099
                           { bbl.vvol volume tie.or.space.connect }
                   2100
                   2101
                         if$
```

```
2102 }
                    2103
    format.number
                    2104 FUNCTION {format.number}
                    2105 { number empty$
                    2106
                             { "" }
                    2107
                             { bbl.nr number tie.or.space.connect }
                    2108
                          if$
                    2109 }
                    2110
mat.chapter.pages
                    2111 (*debug)
                    2112 FUNCTION {format.chapter.pages}
                    2113 { chapter empty$
                    2114
                              'format.pages
                    2115
                              { type empty$
                    2116
                                  { bbl.chapter }
                                  { type "1" change.case$ }
                    2117
                                if$
                    2118
                    2119
                                chapter tie.or.space.connect
                    2120
                                pages empty$
                    2121
                                   'skip$
                                   { ", " * format.pages * }
                    2122
                                if$
                    2123
                             }
                    2124
                           if$
                    2125
                    2126 }
                    2127 (/debug)
                    2128
 empty.misc.check
                    2129 FUNCTION {empty.misc.check}
                    2130 { author empty$ title empty$ howpublished empty$
                    2131 month empty$ year empty$ note empty$
                           and and and and
                    2132
                           key empty$ not and
                    2133
                             { "all relevant fields are empty in " cite$ * warning$ }
                    2134
                    2135
                             'skip$
                    2136
                           if$
                    2137 }
                    2138
  bbl.thesis.type
                          \langle \mathrm{NB} \colon \exists \mathrm{TY} \ \Phi \mathrm{УHKЦИЮ} \ \Pi \mathrm{EPEHECTH} \ \mathrm{KУДA-TO} \ \mathrm{BHИ3} \ \mathrm{ближе} \ \mathrm{\kappa} \ \mathrm{format.thesis.type} \ \mathrm{H}
                      объединить с ней (?)
                    2139 FUNCTION {bbl.thesis.type}
                    2140 { type "mathesis" =
                    2141 { bbl.mathesis }
                          { type "phdthesis" =
                    2142
```

2143

{ bbl.phdthesis }

```
{ type "docthesis" =
                   2144
                   2145
                              { bbl.docthesis }
                              %%{ "!!!" type * "t" change.case$ }
                   2146
                                    { type "t" change.case$ }
                   2147 (!utf8)
                   2148 \langle utf8 \rangle
                                   { type }
                   2149
                            if$}
                   2150
                         if$}
                   2151 if$}
                   2152
ormat.thesis.type
                   2153 %FUNCTION {format.thesis.type}
                   2154 \%{ type empty$
                   2155 %
                             'skip$
                   2156 %
                             { pop$
                   2157 %%<!utf8>
                                        bbl.thesis.type "t" change.case$
                   2158 %%<utf8>
                                       bbl.thesis.type
                   2159 %
                   2160 %
                           if$
                   2161 %}
                   2162 FUNCTION {format.thesis.type}
                   2163 { type empty$
                            'skip$
                   2164
                            { pop$
                   2165
                   2166
                              bbl.thesis.type
                   2167
                            }
                   2168
                         if$
                   2169 }
                         Function to format report type and number.
chrep.type.number
                   2170 %FUNCTION {format.techrep.type.number}
                   2171 %{ type empty$
                             { bbl.techreport }
                   2172 %
                   2173 %
                             'type
                   2174 % if$
                   2175 % number empty$
                   2176 %%<!utf8>
                                     { "t" change.case$ }
                   2177 %%<utf8>
                                     { "" }
                             { number tie.or.space.connect }
                   2178 %
                   2179 % if$
                   2180 %}
                   2182 FUNCTION {format.techreport.type}
                   2183 { type empty$
                           { bbl.techreport }
                   2184
                   2185
                           'type
                          if$
                   2186
                   2187 }
                   2188
```

utput.author.head

Formats and writes list of authors in the heading of a bibliographic record. The GOST bibstyles skip the list of authors in the beginning of the bibliographic record if the number of authors is 4

or larger except for the styles with suffix 1 which prints all authors in the heading. The bibstyles compiled with the option struct print at most 1 person name in the heading.

```
2189 FUNCTION {output.author.head}
2190 {
2191
      author empty$
2192
         'skip$
2193 (*long)
2194
         { author fmt.names.all output.nonnull
           %new.sentence
2195
2196
2197 (/long)
2198 (*!long)
         {author num.names$ #4 <
2199
2200
           {
2201 (strict)
                   author fmt.names.first output
2202 (!strict)
                   author fmt.names.three output
2203
            new.sentence
2204
2205
           'skip$
2206
         if$}
2207 (/!long)
2208
      if$
2209 }
2210
```

bookauthor.head

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

utput.author.rest

Writes the rest of authors list after the entry title followed by a slash. In modern bibstyles, the list of authors in the heading part of a bibliographic record is cut to either 3 persons (if no !strict option is applied) or 1 person (if strict option). By idea, output.author.rest should print the rest of the authors in the author field but currently it also repeats the persons printed in the heading part. output.author.rest returns a null string ("") if all persons are printed in the heading part of the record. Note that all persons are always printed in the heading part if long option is applied.

```
2211 FUNCTION {output.author.rest}
2212 {
2213 (*!long)
       author empty$
2214
          'skip$
2215
2216 \langle strict \rangle
                {author num.names$ #1 >
                 {author num.names$ #3 >
2217 (!strict)
2218
            { author fmt.names.all output
2219
              new.semicolon
2220
2221
            'skip$
         if$}
2222
       if$
2223
2224 (/!long)
2225 }
2226
```

This function is used only in inbook entry. It always cuts list to 4 persons since format.bookauthors.rest bookauthor.rest does that. 2227 FUNCTION {bookauthor.rest} 2228 { 2229 bookauthor empty\$ 2230 'skip\$ 2231 2232 (strict) bookauthor fmt.names.all output  $2233 \langle !strict \rangle$ bookauthor fmt.names.three output 2234 new.semicolon 2235 2236 if\$ 2237 } 2238 organization.rest 2239 FUNCTION {editor.organization.rest} 2240 { 2241 compiler empty\$ {} 2242 { format.compiler.rest output 2243 2244 new.semicolon 2245 } if\$ 2246 editor empty\$ 2247 {} 2248 { format.editors.rest output.nonnull 2249 new.semicolon 2250 2251 } 2252 if\$ organization empty\$ 2253 2254 2255 {organization output.nonnull 2256 new.semicolon 2257 2258 if\$ 2259 } 2260 format.url 2261 FUNCTION {format.url} 2262 { url empty\$ { "" } 2263 2264

bbl.url ": \BibUrl{" \* url \* "}" \*

{ " (" bbl.urldate \* ": " \* urldate \* ")" \* }

urldate empty\$
{ "" }

if\$ \*

}

if\$

2265

2266

2267

2268

2269

2270 2271

```
2272 }
               2273
   output.url
               2274 FUNCTION {output.url}
               2275 {
               2276
                     url empty$
                        'skip$
               2277
                       { format.url output }
               2278
                     if$
               2279
               2280 }
               2281
format.annote
               2282 FUNCTION {format.annote}
               2283 { annote empty$
               2284
                       { "" }
               2285 { after.sentence 'output.state :=
                     "\BibAnnote{" annote add.period$ * "}" *
               2286
               2287 }
               2288
                     if$
               2289 }
               2290
                     (NB: Do we really need to provide electronic search for ISBN?)
  format.isbn
               2291 FUNCTION {format.isbn}
               2292 {
               2293
                     isbn empty$
                       { "" }
               2294
                       { "ISBN: ^{http://isbndb.com/search-all.html?kw=" isbn *}
               2295
               2296
                          "}{" * isbn * "}" *
               2297
               2298
                     if$
               2299 }
               2300
```

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 https://doi.org/ web-site.

```
2309 }
2310 if$
2311 }
2312 \langle \text{eprint} \rangle

If .bst style is compiled without eprint option, we just ignore doi field.
2313 \langle *!eprint \rangle
2314 FUNCTION \{add.doi\} \{\}
2315 \langle /!eprint \rangle
2316
```

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.

```
2317 (*!strict)
2318 FUNCTION {add.media}
2319 { duplicate$ empty$
         'skip$
2320
2321
         { media empty$
             'skip$
2322
             { " " * bbl.media bracketise * }
2323
2324
           if$
         }
2325
2326
      if$
2327 }
2328 (/!strict)
2329 (*strict)
2330 FUNCTION {add.media}
2331 { duplicate$ empty$
         'skip$
2332
         { media empty$
2333
           { type$ "online" =
2334
               { " " * bbl.media.online bracketise * }
2335
               { " " * bbl.media.text bracketise * }
2336
2337
             if$
2338
           { " " * bbl.media bracketise * }
2339
2340
         if$
        }
2341
      if$
2342
2343 }
2344 (/strict)
2345
```

## 6.13 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

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.

(NB: This function should use url. TO BE DONE YET.)

```
2346 (*eprint)
2347 %FUNCTION {format.eprint}
2348 %{ eprint empty$
2349 %
       { "" }
2350 %
        { eprintclass empty$
            { " \href{http://arxiv.org/abs/" eprint * "}" * "{" * eprint * "}" * }
2351 %
            { eprinttype empty$
2352 %
2353 %
               { " \href{http://arxiv.org/abs/" eprint * "}" *
                "{" * eprintclass * "/" * eprint * "}" *
2354 %
               }
2355 %
               { " \href{http://arxiv.org/abs/" eprint * "}" *
2356 %
                "{" * eprinttype * ":" * eprintclass * "/" * eprint * "}" *
2357 %
2358 %
               }
2359 %
            if$}
2360 %
        if$}
2361 %if$}
2362
2363 %FUNCTION {format.eprint}
2364 %{ eprint empty$
2365 %
        { "" }
2366 %
        { eprinttype empty$
             { "" }
2367 %
2368 %
             { eprinttype "~: " *}
2369 %
           if$
2370 %
           eprintclass empty$
2371 %
             { }
2372 %
             { eprintclass * "/" *}
2373 %
         if$
2374 %
         eprint *
2375~\%
        }
2376 %
       if$
2377 %
       url empty$
2378 %
         { }
          { "\href{" url * "}{" * swap$ * "}" *}
2379 %
2380 %
       if$
2381 %}
2382
2383 FUNCTION {format.eprint}
2384 { eprint empty$
```

```
{ "" }
                   2385
                   2386
                           { eprinttype empty$
                               { "" }
                   2387
                                { eprinttype "~: " *}
                   2388
                             if$
                   2389
                   2390
                             eprintclass empty$
                               { }
                   2391
                                { eprintclass * "/" *}
                   2392
                   2393
                             if$
                   2394
                             url empty$
                              { eprint * }
                   2395
                              { "\href{" * url * "}{" * eprint * "}" *}
                   2396
                   2397
                            if$
                           }
                   2398
                   2399
                          if$
                   2400 }
                   2401
                   2402 FUNCTION {output.eprint.url}
                   2403 {
                   2404
                          eprint empty$
                   2405
                            { format.url output }
                            { format.eprint output }
                   2406
                   2407
                         if$
                   2408 }
                   2409
                   2410 (/eprint)
                   2411
                   2412 (*!eprint)
                   2413 FUNCTION {output.eprint.url}
                   2414 {
                   2415
                            format.url output
                   2416 }
                   2417 \; \langle /!\mathsf{eprint} \rangle
                   2418
                         Functions added in v1.2f to format patent entry (thanks to Stanislav Kruchinin).
       add.number
                   2419 FUNCTION {add.number}
                   2420 { duplicate$ empty$
                            { "" }
                   2421
                   2422
                            { bbl.nr swap$ tie.or.space.connect }
                   2423
                          if$
                   2424 }
                   2425
ormat.type.number
                   2426 FUNCTION {format.type.number}
                   2427 {
                   2428
                          type empty$
                            { "" }
                   2429
                   2430
```

```
2433
                             { type number tie.or.space.connect }
                           if$
                   2434
                           }
                   2435
                         if$
                   2436
                   2437 }
                   2438
ormat.requestdate
                   2439 FUNCTION {format.requestdate}
                   2440 { requestdate empty$
                           { "" }
                   2441
                           { bbl.req requestdate tie.or.space.connect }
                   2442
                   2443
                         if$
                   2444 }
                   2445
t.publicationdate
                   2446 FUNCTION {format.publicationdate}
                   2447 { publicationdate empty$
                           { "" }
                   2449
                           { bbl.publ publicationdate tie.or.space.connect }
                   2450
                         if$
                  2451 }
                   2452
rmat.prioritydate
                   2453 FUNCTION {format.prioritydate}
                   2454 { prioritydate empty$
                           { "" }
                   2456
                           { bbl.priority prioritydate tie.or.space.connect }
                   2457
                   2458 }
                   2459
```

number empty\$
{ "" }

2431

2432

## 6.14 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.

## 6.14.1 Regular Types

article

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.

```
2460 FUNCTION {article}
2461 {
      output.bibitem
2462
2463
      output.author.head
      new.sentence
2465 (natbib) author format.key output
      title add.media "title" output.check
2466
2467
      new.slash
      output.author.rest
2468
2469
     new.dblslash
      journal emphasize add.doi "journal" output.check % new in v1.2
2470
2471
     format.date "year/date" output.check
2472
     new.block
2473
     format.volume output
2474
      format.number output
2475
2476
      new.block
2477
      format.pages.page output
2478
      new.block
2479
      note output
2480
     new.sentence
2481 % format.url output
2482
      output.eprint.url
2483
      format.annote output
2484
      fin.entry
2485 }
2486
```

book

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.

```
2487 FUNCTION {book} 2488 {
```

```
2489
      output.bibitem
2490
      output.author.head
     new.sentence
2491
2492 (natbib) author format.key output
2493 title add.doi add.media "title" output.check
     new.colon % added in v.1.2k
2494
     titleaddon output % added in v.1.2k
2495
2496
     new.slash
2497
      output.author.rest
2498
      editor.organization.rest
2499
     new.sentence
2500 format.number.series output
2501 new.block
2502 format.edition output
2503 new.block
2504 output.address.publisher
2505 format.date "year/date" output.check
2506 new.block
2507 format.bvolume output
2508 new.block
2509 format.pages.page output
2510
     new.block
2511 \langle eprint \rangle format.isbn output
2512 (eprint) new.block
2513 note output
2514 new.sentence
2515 % format.url output
2516 output.eprint.url
2517 format.annote output
2518 fin.entry
2519 }
2520
```

booklet

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.

```
2521 FUNCTION {booklet}
2522 {
2523
     output.bibitem
2524
     output.author.head
     new.sentence
2525
2526 (natbib) author format.key output
2527 title add.doi add.media "title" output.check
2528
     new.colon
                        % added in v.1.2k
2529 titleaddon output % added in v.1.2k
     new.slash
2530
     output.author.rest
2531
```

```
2532 editor.organization.rest
2533 new.block
2534 howpublished output
2535 address.or.location output
2536 format.date "year/date" output.check
2537 new.block
2538 note output
2539 new.sentence
2540 % format.url output
2541 output.eprint.url
2542 format.annote output
2543 fin.entry
2544 }
2545
```

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.

```
2546 FUNCTION {inbook}
2547 {
2548 output.bibitem
2549 output.author.head
2550 new.sentence
2551 (natbib) author format.key output
2552 title add.doi add.media "title" output.check
                       % added in v.1.2k
2553 new.colon
2554 titleaddon output % added in v.1.2k
2555 new.slash
2556 output.author.rest
2557 new.dblslash
2558 % bookauthor.head
2559
     booktitle "booktitle" output.check
2560 new.slash
2561 bookauthor.rest
2562 editor.organization.rest
2563 new.block
2564 format.edition output
2565 new.block
2566 format.number.series output
2567 new.sentence
     output.address.publisher
2568
2569 format.date "year/date" output.check
2570
     new.block
     format.bvolume output
2571
2572
     new.block
```

```
2573 format.pages.page output
2574 new.block
2575 ⟨eprint⟩ format.isbn output
2576 ⟨eprint⟩ new.block
2577 note output
2578 new.sentence
2579 % format.url output
2580 output.eprint.url
2581 format.annote output
2582 fin.entry
2583 }
2584
```

### 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.

```
2585 FUNCTION {incollection}
2586 {
     output.bibitem
2587
     output.author.head
2588
     new.sentence
2590 (natbib) author format.key output
     new.sentence
2592
     title add.doi add.media "title" output.check
     new.colon % added in v.1.2k
2593
2594 titleaddon output % added in v.1.2k
2595 new.slash
2596 output.author.rest
2597 new.dblslash
2598 booktitle "booktitle" output.check
2599 new.slash
     editor.organization.rest
2600
2601
     new.block
     output.address.publisher
2602
2603
     format.date "year/date" output.check
2604
     new.block
2605
     format.bvolume output
2606
     format.number.series output
2607
     new.block
2608
     format.pages.page output
2609 new.block
2610 note output
2611 new.sentence
2612 % format.url output
2613 output.eprint.url
```

```
2614 format.annote output
2615 fin.entry
2616 }
```

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.

```
2618 FUNCTION {proceedings}
2619 {
2620
      output.bibitem
2621 (natbib) editor format.key output
      title add.doi add.media "title" output.check
2622
                                   % added in v.1.2k
2623
      new.colon
      titleaddon output
                                   % added in v.1.2k
2624
      new.slash
2625
      editor.organization.rest
2626
2627
      new.block
2628
      output.address.publisher
                                   % 1.2k moved from below
                                   % added in v.1.2k
2629
      new.block
2630
      format.date "year/date" output.check
2631
     new.block
      format.bvolume output
2632
2633
     format.number.series output
2634
      new.block
      format.pages.page output
2635
      %%output.address.publisher % 1.2k moved upper
2636
2637
      new.block
2638
      note output
     new.sentence
2639
2640 % format.url output
2641
     output.eprint.url
     format.annote output
2643
      fin.entry
2644 }
2645
```

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.

```
2646 FUNCTION {inproceedings} 2647 { output.bibitem
```

```
output.author.head
2648
2649
      new.sentence
2650 (natbib) author format.key output
     new.sentence
2651
      title add.doi add.media "title" output.check
2652
                               % added in v.1.2k
2653
     new.colon
                               % added in v.1.2k
2654
     titleaddon output
2655
     new.slash
2656
      output.author.rest
2657
     new.dblslash
      booktitle "booktitle" output.check
2658
2659
     new.slash
     editor.organization.rest
2660
2661 new.block
2662 output.address.publisher
                                  % 1.2k moved from below
2663 new.block
                                  % added in v.1.2k
2664 % address empty$
         { publisher output
2665 %
           format.date "year/date" output.check
2666 %
2667 %
2668 %
         { address output.nonnull
2669 %
           new.colon
2670 %
           publisher output
           format.date "year/date" output.check
2671 %
2672 %
         }
2673 % if$
2674 % output.address.publisher
                                       % moved upper in v.1.2k
2675 format.date "year/date" output.check
     new.block
2676
2677
     format.bvolume output
2678 format.number.series output
2679 new.block
2680 format.pages.page output
2681 new.block
2682 note output
2683 new.sentence
2684 % format.url output
2685 output.eprint.url
2686 format.annote output
2687
     fin.entry
2688 }
2689
```

 $\begin{tabular}{ll} \textbf{manual} & \textbf{Technical or other documentation, not necessarily in printed form. The author or editor is omissible.} \\ & \textbf{Required fields: author/editor, title, year/date.} \end{tabular}$ 

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.

```
2690 FUNCTION {manual} 2691 { output.bibitem
```

```
2692
      author empty$
2693
        { organization empty$
             'skip$
2694
2695
            { organization output.nonnull
2696
              address output
2697
          if$
2698
2699
        }
2700
        { format.author output.nonnull }
2701
2702 (natbib) author format.key output
     new.block
2703
      title add.doi add.media "title" output.check
2704
2705
     new.colon
                          % added in v.1.2k
      titleaddon output % added in v.1.2k
      author empty$
2707
2708
        { organization empty$
2709
              address new.block.checka
2710
2711
              address output
            }
2712
2713
             'skip$
2714
          if$
2715
        }
        {
2716
          organization address new.block.checkb
2717
2718
          organization output
2719
          address output
2720
        }
2721
      if$
      format.edition output
2722
     format.date "year/date" output.check
2723
     new.block
2724
2725
     note output
2726
     new.sentence
2727 % format.url output
2728
     output.eprint.url
2729
     format.annote output
      fin.entry
2730
2731 }
2732
```

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.

2733 FUNCTION {patent}

```
2734 {
2735
     output.bibitem
2736 title add.media output.nonnull
2737 new.colon % added in v.1.2k
2738 titleaddon output % added in v.1.2k
2739 new.colon
2740 format.type.number output
2741
     add.blank
2742
     address.or.location output
2743 new.colon
2744 ipc output
2745 new.slash
2746 format.author "author" output.check
2747 add.blank
2748 authorcountry paranthesify output.nonnull
2749 (natbib) author format.key output
2750 new.semicolon
2751 holder output.nonnull
2752 new.semicolon
2753 credits output.nonnull
2754 new.block
2755 requestnumber add.number output
2756
     new.semicolon
2757 format.requestdate output
2758 new.semicolon
2759 format.publicationdate output
2760 publication output
2761 new.semicolon
2762 format.prioritydate output
2763 prioritynumber output
2764 prioritycountry paranthesify output
2765 new.block
2766 note output
2767 new.sentence
2768
     output.url
2769 format.annote output
2770 new.block
2771 pagetotal output
2772
     fin.entry
2773 }
2774
```

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.

```
new.sentence
2779
                             % v.1.2k
2780 (natbib) author format.key output
     title howpublished new.sentence.checkb
     title add.media output
2782
     howpublished new.block.checka
2783
     howpublished output
2784
2785
     new.block
2786
     format.date "year/date" output.check
2787
     new.block
2788
     note output
     new.sentence
2789
2790 % format.url output
2791 output.eprint.url
2792 format.annote output
     fin.entry
2793
2794 }
2795
```

### 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

```
2796 FUNCTION {unpublished}
2797 { output.bibitem
     output.author.head
2798
     new.sentence
2800 (natbib) author format.key output
     title "title" output.check
2801
                         % added in v.1.2k
     new.colon
2802
     titleaddon output % added in v.1.2k
2803
2804
     new.slash
     output.author.rest
2805
2806
     editor.organization.rest
2807
     new.block
     format.date "year/date" output.check
2808
2809
     new.block
2810 note "note" output.check
2811 new.sentence
2812 % format.url output
2813 output.eprint.url
     format.annote output
2814
     fin.entry
2815
2816 }
2817
```

online

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.

```
2818 FUNCTION {online}
            2819 { output.bibitem
                  format.author output
            2820
            2821 (natbib) author format.key output
                  title howpublished new.sentence.checkb
            2822
            2823
                  title add.doi add.media "title" output.check
                  new.colon
                                      % added in v.1.2k
            2824
                  titleaddon output % added in v.1.2k
            2825
            2826 % howpublished new.block.checka
                  howpublished new.dblslash.checka
            2827
            2828 (!strict) howpublished output
            2829 (strict) howpublished bracketise output
                  editor.organization.rest
            2830
            2831
                  new.sentence
                  new.block
            2832
                  output.address.publisher
            2833
                  format.date output
            2834
            2835
                  new.block
            2836 % format.url output
                  output.eprint.url
            2837
            2838
                  new.sentence
                  note output
            2839
            2840
                  format.annote output
            2841
                  fin.entry
            2842 }
            2843
                    New in version 2012.02.15.
   internet
        \verb"www" 2844 FUNCTION {internet}" \\
                                        {online}
    webpage 2845 FUNCTION {www}
                                        {online}
ielectronic 2846 FUNCTION {webpage}
                                        {online}
            2847 FUNCTION {electronic} {online}
```

New in version 2012.02.02.

thesis

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

```
2848 FUNCTION {thesis}
2849 { output.bibitem
2850   format.author "author" output.check
2851 ⟨natbib⟩ author format.key output
2852   new.sentence
2853   title add.doi add.media "title" output.check
2854   new.colon
2855   bbl.phdthesis format.thesis.type output.nonnull
```

```
2856
     new.colon
2857
     specialitycode.or.number output % code of the speciality, new in v.1.2i
2858
     new.colon
     titleaddon output % date of defence and approvement; new in v.1.2i
2859
2860
     new.slash
     %%%format.author.rest output %% dupplicates athours from the head zone
2861
                                   %% prints if num.names$ > 3 or > 1
2862
     output.author.rest
2863
     new.semicolon
2864
     %institution "institution" output.check
     institution.or.school "institution/school" output.check
2865
     new.block
2866
2867 output.address.publisher
2868 format.date "year/date" output.check
2869 new.block
2870 format.pages.page output
2871 new.block
2872 note output
2873 new.sentence
2874 % format.url output
2875 output.eprint.url
2876
    format.annote output
2877
    fin.entry
2878 }
```

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.

```
2879 %FUNCTION {report}
2880 %{
2881 % output.bibitem
2882 % output.author.head
2883 % new.sentence
2884 % title add.doi add.media "title" output.check
2885 % new.colon
2886 %% format.techrep.type.number output.nonnull
2887 \% type "type" output.check
2888 % new.slash
2889 % output.author.rest
2890 % editor.organization.rest
2891 % new.block
2892 % address output
2893 % new.colon
2894 \% institution "institution" output.check
2895 % format.date "year/date" output.check
2896 % new.block
2897 % note output
```

```
2898 % new.block
                                % v.2
2899\,\% format.pages.page output \% v.2
2900 % new.sentence
2901 %% format.url output
2902 % output.eprint.url
2903 % format.annote output
2904 % fin.entry
2905 %}
2906 FUNCTION {report}
2907 {
2908 \quad {\tt output.bibitem}
2909\% output.author.head
2910 % new.sentence
2911 title add.doi add.media "title" output.check
2912 (natbib) title format.key output
2913 new.colon % added in v.1.2k
2914 titleaddon output % added in v.1.2k
2915 new.colon
2916 % format.techrep.type.number output.nonnull
2917\,\mbox{\%} type "type" output.check
2918 % format.report.type.number "type" output.check
2919 type "type" output.check
2920 new.colon
2921 number output
2922 new.slash
2923 %institution "institution" output.check
2924 institution.or.school "institution/school" output.check
2925 new.semicolon
2926 format.chief.rest output % from editor field
2927 new.semicolon
2928 format.executor.rest output % from author field
2929 new.block
2930 \quad {\tt address.or.location\ output}
2931 new.colon
2932 organization output
2933 format.date "year/date" output.check
2934 new.block
                              % v.2
2935 format.pages.page output % v.2
2936 new.sentence % или new.block ?
2937 output.eprint.url
2938 new.block
2939 note output
2940 format.annote output
2941 fin.entry
2942 }
2943
```

#### 6.14.2 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.

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.

```
2944 FUNCTION {phdthesis}
2945 { output.bibitem
     format.author "author" output.check
2947 (natbib) author format.key output
     new.sentence
2948
     title add.doi add.media "title" output.check
2949
     new.colon
2950
     bbl.phdthesis format.thesis.type output.nonnull
2951
     new.colon
2952
     %%number output % code of the speciality
2953
     specialitycode.or.number output % code of the speciality, new in v.1.2i
2954
2955
     new.colon
     titleaddon output % date of defence and approvement; new in v.1.2i
2956
2957
     new.slash
2958
     %%format.author.rest output %% dupplicates athours
2959
     output.author.rest
                                    %% prints if num.names$ > 3 or > 1
     new.semicolon
2960
     %institution "institution" output.check
2961
2962 institution.or.school "institution/school" output.check
2963 new.block
2964 output.address.publisher
2965 format.date "year/date" output.check
2966 new.block
2967 format.pages.page output
2968 new.block
2969 note output
2970 new.sentence
2971 % format.url output
2972 output.eprint.url
2973
     format.annote output
2974
     fin.entry
2975 }
```

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.

```
2976 FUNCTION {mastersthesis}
2977 { output.bibitem
2978   format.author "author" output.check
2979 ⟨natbib⟩ author format.key output
2980   new.sentence
2981   title add.doi add.media "title" output.check
2982   new.colon
```

```
bbl.mathesis format.thesis.type output.nonnull
         2983
         2984
               new.colon
               %%number output % code of the speciality
         2985
               specialitycode.or.number output % code of the speciality, new in v.1.2i
         2986
         2987
               new.colon
         2988 titleaddon output % date of defence and approvement; new in v.1.2i
         2989
               new.slash
         2990
               %%format.author.rest output %% dupplicates athours
         2991
               output.author.rest
                                             %% prints if num.names$ > 3 or > 1
         2992
               new.semicolon
         2993 %institution "institution" output.check
         2994 institution.or.school "institution/school" output.check
         2995 new.block
         2996 output.address.publisher
         2997 format.date "year/date" output.check
         2998 new.block
         2999 format.pages.page output
         3000 new.block
         3001 note output
         3002 new.sentence
         3003 % format.url output
         3004 output.eprint.url
              format.annote output
         3006 fin.entry
         3007 }
           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.
         3008 FUNCTION {docthesis}
         3009 { output.bibitem
         3010 format.author "author" output.check
         3011 (natbib) author format.key output
         3012 new.sentence
         3013 title add.doi add.media "title" output.check
         3014 new.colon
         3015 bbl.docthesis format.thesis.type output.nonnull
         3016 new.colon
         3017
               %%number output % code of the speciality
         3018 specialitycode.or.number output % code of the speciality, new in v.1.2i
         3019 new.colon
         3020 titleaddon output % date of defence and approvement; new in v.1.2i
         3021
               new.slash
         3022
               %%format.author.rest output %% dupplicate athours
         3023
               output.author.rest
                                             %% prints if num.names$ > 3 or > 1
              new.semicolon
         3024
         3025 %institution "institution" output.check
         3026 institution.or.school "institution/school" output.check
         3027 new.block
         3028 output.address.publisher
         3029 format.date "year/date" output.check
```

3030 new.block

```
format.pages.page output
           3031
           3032 new.block
           3033 note output
           3034 new.sentence
           3035 \% format.url output
           3036 output.eprint.url
           3037 format.annote output
           3038 fin.entry
           3039 }
conference
           3040 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.
           3042 %FUNCTION {techreport}
           3043 %{
           3044\% output.bibitem
           3045 % output.author.head
           3046 % new.sentence
           3047 % title add.doi add.media "title" output.check
          3048 \% new.colon
          3049\ \% format.techrep.type.number output.nonnull
           3050 % new.slash
           3051 % output.author.rest
           3052 % editor.organization.rest
           3053 % new.block
          3054 \% address output
           3055 % new.colon
          3056\,\% institution "institution" output.check
          3057 % format.date "year/date" output.check
           3058 % new.block
           3059 % note output
           3060 % new.block
                                           % v.2
           3061 % format.pages.page output % v.2
           3062 % new.sentence
           3063 %% format.url output
           3064 % output.eprint.url
           3065 % format.annote output
           3066 % fin.entry
           3067 %}
           3068
           3069 FUNCTION {techreport}
           3070 {
           3071 output.bibitem
           3072 % output.author.head
```

3073 % new.sentence

3076 new.colon

3074 title add.doi add.media "title" output.check

 $3075 \langle natbib \rangle$  title format.key output

```
3077 % format.techrep.type.number output.nonnull
            3078 % type "type" output.check
            3079 % format.report.type.number "type" output.check
            3080 % type output
            3081 format.techreport.type output
            3082 new.colon
            3083 number output
            3084
                  new.slash
            3085
                  %institution "institution" output.check
            3086 institution.or.school "institution/school" output.check
            3087 new.semicolon
            3088 format.chief.rest output % from editor field
            3089 new.semicolon
            3090 format.executor.rest output % from author field
            3091 new.block
            3092 address.or.location output
            3093 new.colon
            3094 organization output
            3095 format.date "year/date" output.check
                  new.block
                                           % v.2
            3096
            3097
                  format.pages.page output % v.2
            3098
                  new.sentence % или new.block ?
                  output.eprint.url
            3099
                  new.block
            3100
                 note output
            3101
            3102 format.annote output
            3103 fin.entry
            3104 }
            3105
default.type
            3106 FUNCTION {default.type} { misc }
            3107
```

## 6.15 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.

```
3108 MACRO {jan} {"Jan."}
3109 MACRO {feb} {"Feb."}
3110 MACRO {mar} {"Mar."}
3111 MACRO {apr} {"Apr."}
3112 MACRO {may} {"May"}
3113 MACRO {jun} {"Jun."}
3114 MACRO {jul} {"Jul."}
3115 MACRO {aug} {"Aug."}
3116 MACRO {sep} {"Sep."}
3117 MACRO {oct} {"Oct."}
3118 MACRO {nov} {"Nov."}
```

#### 6.16 Journal Abbreviations

### 6.16.1 Physics and astronomy

```
Borrowed from physjour.mbs of package custom-bib.
3120 MACRO {aa}{"Astron.\ & Astrophys."}
3121 MACRO {aasup}{"Astron.\ \& Astrophys.\ Suppl.\ Ser."}
3122 MACRO {aj} {"Astron.\ J."}
3123 MACRO {aph} {"Acta Phys."}
3124 MACRO {advp} {"Adv.\ Phys."}
3125 MACRO {ajp} {"Amer.\ J.\ Phys."}
3126 MACRO {ajm} {"Amer.\ J.\ Math."}
3127 MACRO {amsci} {"Amer.\ Sci."}
3128 MACRO {anofd} {"Ann.\ Fluid Dyn."}
3129 MACRO {am} {"Ann.\ Math."}
3130 MACRO {ap} {"Ann.\ Phys.\ (NY)"}
3131 MACRO {adp} {"Ann.\ Phys.\ (Leipzig)"}
3132 MACRO {ao} {"Appl.\ Opt."}
3133 MACRO {apl} {"Appl.\ Phys.\ Lett."}
3134 MACRO {app} {"Astroparticle Phys."}
3135 MACRO {apj} {"Astrophys.\ J."}
3136 MACRO {apjsup} {"Astrophys.\ J.\ Suppl."}
3137 MACRO {apss} {"Astrophys.\ Space Sci."}
3138 MACRO {araa} {"Ann.\ Rev.\ Astron.\ Astrophys."}
3139 MACRO {baas} {"Bull.\ Amer.\ Astron.\ Soc."}
3140 MACRO {baps} {"Bull.\ Amer.\ Phys.\ Soc."}
3141 MACRO {cmp} {"Comm.\ Math.\ Phys."}
3142 MACRO {cpam} {"Commun.\ Pure Appl.\ Math."}
3143 MACRO {cppcf} {"Comm.\ Plasma Phys.\ \& Controlled Fusion"}
3144 MACRO {cpc} {"Comp.\ Phys.\ Comm."}
3145 MACRO {cqg} {"Class.\ Quant.\ Grav."}
3146 MACRO {cra} {"C.\ R.\ Acad.\ Sci.\ A"}
3147 MACRO {fed} {"Fusion Eng.\ \& Design"}
3148 MACRO {ft} {"Fusion Tech."}
3149 MACRO {grg} {"Gen.\ Relativ.\ Gravit."}
3150 MACRO {ieeens} {"IEEE Trans.\ Nucl.\ Sci."}
3151 MACRO {ieeeps} {"IEEE Trans.\ Plasma Sci."}
3152 MACRO {ijimw} {"Interntl.\ J.\ Infrared \& Millimeter Waves"}
3153 MACRO {ip} {"Infrared Phys."}
3154 MACRO {irp} {"Infrared Phys."}
3155 MACRO {jap} {"J.\ Appl.\ Phys."}
3156 MACRO {jasa} {"J.\ Acoust.\ Soc.\ America"}
3157 MACRO {jcp} {"J.\ Comp.\ Phys."}
3158 MACRO {jchp} {"J.\ Chem.\ Phys."}
3159 MACRO {jetp} {"Sov.\ Phys.--JETP"}
3160 MACRO {jfe} {"J.\ Fusion Energy"}
3161 MACRO {jfm} {"J.\ Fluid Mech."}
3162 MACRO {jmp} {"J.\ Math.\ Phys."}
```

```
3163 MACRO {jne} {"J.\ Nucl.\ Energy"}
3164 MACRO {jnec} {"J.\ Nucl.\ Energy, C: Plasma Phys., Accelerators, Thermonucl.\ Res."}
3165 MACRO {jnm} {"J.\ Nucl.\ Mat."}
3166 MACRO {jpc} {"J.\ Phys.\ Chem."}
3167 MACRO {jpp} {"J.\ Plasma Phys."}
3168 MACRO {jpsj} {"J.\ Phys.\ Soc.\ Japan"}
3169 MACRO {jsi} {"J.\ Sci.\ Instrum."}
3170 MACRO {jvst} {"J.\ Vac.\ Sci.\ \& Tech."}
3171 MACRO {nat} {"Nature"}
3172 MACRO {nature} {"Nature"}
3173 MACRO {nedf} {"Nucl.\ Eng.\ \& Design/Fusion"}
3174 MACRO {nf} {"Nucl.\ Fusion"}
3175 MACRO {nim} {"Nucl.\ Inst.\ \& Meth."}
3176 MACRO {nimpr} {"Nucl.\ Inst.\ \& Meth.\ in Phys.\ Res."}
3177 MACRO {np} {"Nucl.\ Phys."}
3178 MACRO {npb} {"Nucl.\ Phys.\ B"}
3179 MACRO {nt/f} {"Nucl.\ Tech./Fusion"}
3180 MACRO {npbpc} {"Nucl.\ Phys.\ B (Proc.\ Suppl.)"}
3181 MACRO {inc} {"Nuovo Cimento"}
3182 MACRO {nc} {"Nuovo Cimento"}
3183 MACRO {pf} {"Phys.\ Fluids"}
3184 MACRO {pfa} {"Phys.\ Fluids A: Fluid Dyn."}
3185 MACRO {pfb} {"Phys.\ Fluids B: Plasma Phys."}
3186 MACRO {pl} {"Phys.\ Lett."}
3187 MACRO {pla} {"Phys.\ Lett.\ A"}
3188 MACRO {plb} {"Phys.\ Lett.\ B"}
3189 MACRO {prep} {"Phys.\ Rep."}
3190 MACRO {pnas} {"Proc.\ Nat.\ Acad.\ Sci.\ USA"}
3191 MACRO {pp} {"Phys.\ Plasmas"}
3192 MACRO {pop} {"Phys.\ Plasmas"}
3193 MACRO {ppcf} {"Plasma Phys.\ \& Controlled Fusion"}
3194 MACRO {phitrsl} {"Philos.\ Trans.\ Roy.\ Soc.\ London"}
3195 MACRO {prl} {"Phys.\ Rev.\ Lett."}
3196 MACRO {pr} {"Phys.\ Rev."}
3197 MACRO {physrev} {"Phys.\ Rev."}
3198 MACRO {pra} {"Phys.\ Rev.\ A"}
3199 MACRO {prb} {"Phys.\ Rev.\ B"}
3200 MACRO {prc} {"Phys.\ Rev.\ C"}
3201 MACRO {prd} {"Phys.\ Rev.\ D"}
3202 MACRO {pre} {"Phys.\ Rev.\ E"}
3203 MACRO {ps} {"Phys.\ Scripta"}
3204 MACRO {procrsl} {"Proc.\ Roy.\ Soc.\ London"}
3205 MACRO {rmp} {"Rev.\ Mod.\ Phys."}
3206 MACRO {rsi} {"Rev.\ Sci.\ Inst."}
3207 MACRO {science} {"Science"}
3208 MACRO {sciam} {"Sci.\ Am."}
3209 MACRO {sam} {"Stud.\ Appl.\ Math."}
3210 MACRO {st} {"Sky and Telesc."}
```

#### 6.16.2 Supplementary Journal Names

3253 MACRO {bell} {"Bell Syst.\ Tech.\ J."}

```
Borrowed from suppjour.mbs of package custom-bib.
3211 MACRO {cjp} {"Czech. J. Phys."}
3212 MACRO {el} {"Europhys. Lett."}
3213 MACRO {en} {"Europhys. News"}
3214 MACRO {fujitsustj} {"FUJITSU Sci. Tech. J."}
3215 MACRO {ieeeed} {"IEEE Trans. Electron Devices"}
3216 MACRO {ieeeim} {"IEEE Trans. Instrum. Meas."}
3217 MACRO {ieeejqe} {"IEEE J. Quantum Electron."}
3218 MACRO {ieeem} {"IEEE Trans. Magn."}
3219 MACRO {ieeeptl} {"IEEE Photonic Technol. Lett."}
3220 MACRO {ieeeuffc} {"IEEE Trans. Ultrason., Ferroelect., Freq. Cont."}
3221 MACRO {jem} {"J. Electron. Mater."}
3222 MACRO {jes} {"J. Electrochem. Soc."}
3223 MACRO {jetplett} {"JETP Lett."}
3224 MACRO {jjap} {"Japan. J. Appl. Phys."}
3225 MACRO {jpha} {"J. Phys. A: Math. Gen."}
3226 MACRO {jphb} {"J. Phys. B: At. Mol. Opt. Phys."}
3227 MACRO {jphbold} {"J. Phys. B: At. Mol. Phys."}
3228 MACRO {jphc} {"J. Phys.: Condens. Matter"}
3229 MACRO {jphcold} {"J. Phys. C: Solid State Phys."}
3230 MACRO {jphd} {"J. Phys. D: Appl. Phys."}
3231 MACRO {jvsta} {"J. Vac. Sci. Technol. A"}
3232 MACRO {jvstb} {"J. Vac. Sci. Technol. B"}
3233 MACRO {me} {"Microelectron. Eng."}
3234 MACRO {necrd} {"NEC Res.{\&} Develop."}
3235 MACRO {pa} {"Physica A"}
3236 MACRO {pb} {"Physica B"}
3237 MACRO {pc} {"Physica C"}
3238 MACRO {pd} {"Physica D"}
3239 MACRO {procieee} {"Proc. IEEE"}
3240 MACRO {procspie} {"Proc. SPIE"}
3241 MACRO {pssa} {"Phys. Stat. Sol. A"}
3242 MACRO {pssb} {"Phys. Stat. Sol. B"}
3243 MACRO {rpp} {"Rep. Progr. Phys."}
3244 MACRO {sm} {"Synthet. Metal"}
3245 MACRO {sost} {"Solid State Technol."}
3246 MACRO {ss} {"Surf. Sci."}
3247 MACRO {ssc} {"Solid State Commun."}
3248 MACRO {sst} {"Semicond. Sci. Technol."}
3249 MACRO {suplatt} {"Superlatt. Microstr."}
3250 MACRO {sust} {"Supercond. Sci. Technol."}
3251 MACRO {znat} {"Z. Naturforsch."}
  6.16.3 Optics
  Borrowed from photjour.mbs.
3252 MACRO {appopt} {"Appl.\ Opt."}
```

```
3254 MACRO {ell}
                    {"Electron.\ Lett."}
3255 MACRO {jasp}
                    {"J.\ Appl.\ Spectr."}
3256 MACRO {jqe}
                    {"IEEE J.\ Quantum Electron."}
3257 MACRO {jlwt}
                   {"J.\ Lightwave Technol."}
3258 MACRO {jmo}
                    {"J.\ Mod.\ Opt."}
3259 MACRO {josa}
                    {"J.\ Opt.\ Soc.\ America"}
                   {"J.\ Opt.\ Soc.\ Amer.~A"}
3260 MACRO {josaa}
3261 MACRO {josab}
                   {"J.\ Opt.\ Soc.\ Amer.~B"}
3262 MACRO {jdp}
                    {"J.\ Phys.\ (Paris)"}
                    {"Opt.\ Commun."}
3263 MACRO {oc}
3264 MACRO {ol}
                    {"Opt.\ Lett."}
3265 MACRO {os}
                    {"Opt.\ Spectrosc."}
3266 MACRO {phtl}
                    {"IEEE Photon. Technol. Lett."}
3267 MACRO {pspie} {"Proc.\ Soc.\ Photo-Opt.\ Instrum. Eng."}
3268 MACRO {vr}
                    {"Vision Res."}
3269 MACRO {zph}
                    {"Z.\ f.\ Physik"}
3270 MACRO {zphb}
                    {"Z.\ f.\ Physik~B"}
                   {"Z.\ f.\ Physik~D"}
3271 MACRO {zphd}
  6.16.4 Physics of condensed Matter
3272 MACRO {sse} {"Solid-State Electron."}
3273 MACRO {pss} {"Phys. Sol. State"}
3274 MACRO {nl} {"Nano Lett."}
  6.16.5 Soviet and Russian journals
  (NB: To be extended.)
3275 MACRO {sjpp} {"Sov.\ J.\ Plasma Phys."}
3276 MACRO {spd} {"Sov.\ Phys.--Doklady"}
3277 MACRO {sptp} {"Sov.\ Phys.--Tech. Phys."}
3278 MACRO {spu} {"Sov.\ Phys.--Uspekhi"}
3279 (!utf8)MACRO {ufn} {"\CYRU\CYRF\CYRN"}
3280 \langle utf8 \rangle MACRO \{ufn\} \{"Y\Phi H"\}
3281 MACRO {pu} {"Phys.--Uspekhi"}
3282 MACRO {sjot} {"Sov.\ J.\ Opt.\ Technol."}
```

#### 6.17 Main cycle

3283 MACRO {sjqe} {"Sov.\ J.\ Quantum Electron."}
3284 MACRO {sleb} {"Sov.\ Phys.--Leb.\ Inst.\ Rep."}
3285 MACRO {stph} {"Sov.\ Phys.--Techn.\ Phys."}
3286 MACRO {stphl}{"Sov.\ Techn.\ Phys.\ Lett."}

3287 3288 READ 3289

#### 6.18 Sorting

Next chunk of code governs sorting reference list by authors' names and titles. 3290 (\*sort | natbib)

```
sortify
                 3291 FUNCTION {sortify}
                 3292 { purify$
                 3293 (!utf8) "1" change.case$
                 3294 }
                 3295 (/sort | natbib)
sort.format.names
                 3296 (*sort)
                 3298 %% This version from old Gost package
                 3299 %%<*!natbib>
                 3300 FUNCTION {sort.format.names}
                 3301 { 's :=
                 3302 #1 'nameptr :=
                 3303
                 3304 s num.names$ 'numnames :=
                 3305
                       numnames 'namesleft :=
                 3306
                         { namesleft #0 > }
                 3307
                          { nameptr #1 >
                             { " " * }
                 3308
                 3309
                              skip$
                 3310
                            if$
                 3311
                            s nameptr
                 3312
                            "{vv{ } }{11{ }}{ f{ }}{ jj{ }}"
                 3313
                            format.name$ 't :=
                           nameptr numnames = t "others" = and
                 3314
                              { "et al" * }
                 3315
                             %{ bbl.etal * }
                 3316
                 3317
                             { t sortify * }
                 3318
                            if$
                 3319
                            nameptr #1 + 'nameptr :=
                 3320
                           namesleft #1 - 'namesleft :=
                 3321
                         }
                 3322
                       while$
                 3323 }
                 3324 %%</!natbib>
                 3325 %% This version from plainnat.bst
                 3326\ \mbox{\%\%} It ignores second and subsequent authors but include year.
                 3327 %%<*natbib>
                 3328 %FUNCTION {sort.format.names}
                 3329 %{ 's :=
                 3330 % #1 'nameptr :=
                 3331 % ""
                 3332 % s num.names$ 'numnames :=
                 3333 % numnames 'namesleft :=
                          { namesleft #0 > }
                 3334 %
                 3335 %
                             s nameptr "{vv{ } }{11{ }}{ }ff{ }}{ }jf{ }}" format.name$ 't :=
                 3336 %
                 3337 %
                            nameptr #1 >
```

3338 %

{

```
3340 %
                                namesleft #1 = t "others" = and
                 3341 %
                                  { "zzzzz" * }
                                  { numnames \#2 > nameptr \#2 = and
                 3342 %
                 3343 %
                                      { "zz" * year field.or.null * " " * }
                 3344 %
                                      skip$
                                    if$
                 3345 %
                 3346 %
                                    t sortify *
                 3347 %
                 3348 %
                                if$
                 3349 %
                 3350 %
                              { t sortify * }
                            if$
                 3351 %
                            nameptr #1 + 'nameptr :=
                 3352 %
                 3353 %
                            namesleft #1 - 'namesleft :=
                 3354 %
                 3355 % while$
                 3356 %}
                 3357 %%</natbib>
                 3358 %% -----
                 3359
sort.format.title
                 3360 FUNCTION {sort.format.title}
                 3361 { 't :=
                 3362 "A " #2
                 3363
                         "An " #3
                           "The " #4 t chop.word % Removes "The " if any
                 3364
                                                 % Removes "An " if any
                 3365
                         chop.word
                                                 % Removes "A " if any
                 3366
                       chop.word
                 3367
                       sortify
                 3368
                       #1 global.max$ substring$
                 3369 }
                 3370
     author.sort
                 3372 \ \mbox{\em \%} This version from old gost package.
                 3373 %%
                 3374 \langle *!natbib \rangle
                 3375 FUNCTION {author.sort}
                 3376 { author empty$
                 3377
                         { key empty$
                 3378
                              { "to sort, need author or key in " cite$ * warning$
                 3379
                 3380
                              { key sortify }
                 3381
                 3382
                           if$
                 3383
                         }
                 3384
                 3385
                           author num.names$ #4 <</pre>
```

" " \*

3339 %

```
{author sort.format.names }
                   3386
                   3387
                                 {title sort.format.title}
                   3388
                              if$
                   3389
                   3390
                         if$
                   3391 }
                   3392 \langle /!natbib \rangle
                   3393 %% This version from plainnat.bst
                   3394 (*natbib)
                   3395 FUNCTION {author.sort}
                   3396 { author empty$
                            { key empty$
                   3397
                                 { "to sort, need author or key in " cite$ * warning$
                   3398
                   3399
                   3400
                   3401
                                 { key sortify }
                   3402
                              if$
                   3403
                            { author sort.format.names }
                   3404
                         if$
                   3405
                   3406 }
                   3407 (/natbib)
                      The function author.title.sort is used in the presort function only.
author.title.sort
                   3410 FUNCTION {author.title.sort}
                   3411 { author empty$
                            { title empty$
                   3412
                   3413
                                 { key empty$
                   3414
                                     { "to sort, need author, title, or key in " cite$ * warning$
                   3415
                   3416
                   3417
                                     { key sortify }
                   3418
                                  if$
                                }
                   3419
                   3420
                                 { title sort.format.title }
                   3421
                              if$
                            }
                   3422
                   3423
                              author num.names$ #4 <
                   3424
                                {author sort.format.names }
                   3425
                   3426
                                 {title sort.format.title}
                   3427
                              if$
                   3428
                   3429
                          if$
                   3430 }
```

uthor.editor.sort organization.sort organization.sort The function author.editor.sort, author.organization.sort, editor.organization.sort are not currently used. See commented text in function presort #2.  $\langle NB: WE \ NEED \ TO \ CORRECT \ THAT! \rangle$ 

```
3431 (*natbib)
3432 %FUNCTION {author.editor.sort}
3433 %{ author empty$
         { editor empty$
3434 %
3435 %
              { key empty$
3436 %
                  { "to sort, need author, editor, or key in " cite$ * warning$
3437 %
                  }
3438 %
3439 %
                  { key sortify }
3440 %
               if$
3441 %
3442 %
              { editor sort.format.names }
3443 %
           if$
3444 %
         }
3445 %
         { author sort.format.names }
3446 % if$
3447 %}
3448 %
3449 %FUNCTION {author.organization.sort}
3450 \%{\{} author empty$
3451 %
         { organization empty$
3452 %
              { key empty$
3453 %
                  { "to sort, need author, organization, or key in " cite$ * warning$
3454 %
3455 %
                  }
3456 %
                  { key sortify }
3457 %
                if$
              }
3458 %
3459 %
              { "The " #4 organization chop.word sortify }
3460 %
           if$
3461 %
         }
3462 %
         { author sort.format.names }
3463 % if$
3464 %}
3465
3466 FUNCTION {editor.organization.sort}
3467 { editor empty$
        { organization empty$
3468
             { key empty$
3469
                 { "to sort, need editor, organization, or key in " cite$ * warning$
3470
3471
3472
3473
                 { key sortify }
3474
               if$
3475
             { "The " #4 organization chop.word sortify }
3476
3477
          if$
        }
3478
3479
        { editor sort.format.names }
      if$
3480
```

```
Function to compute sort.key$. What is the space string "____" for? Version #1 is for 'sort'
presort
          and '!natbib' options. Version #2 is for 'sort' and 'natbib' options. Version #3 is for '!sort' and
          'natbib' options.
        3483 \langle *!natbib \rangle
        3484 FUNCTION {presort}%#1
        3485 {
        3486
              author.title.sort
        3487
        3488
        3489
              year field.or.null sortify
        3490
        3491
        3492
        3493
              title field.or.null
        3494
              sort.format.title
        3495
        3496
             #1 entry.max$ substring$
        3497
               'sort.key$ :=
        3498 }
        3499 (/!natbib)
        3500 (*natbib)
        3501 FUNCTION {presort}%#2
        3502 { calc.label
        3503 label sortify
              %author.title.sort
        3504
        3505
        3506
        3507 % ====== plainnat.bst ======
        3508 % type$ "book" =
        3509 % type$ "inbook" =
        3510 % or
        3511 %
                 'author.editor.sort
        3512 %
                 { type$ "proceedings" =
        3513 %
                      'editor.organization.sort
        3514 %
                      { type$ "manual" =
                          \verb|'author.organization.sort|\\
        3515 %
                           'author.sort
        3516 %
        3517 %
                        if$
        3518 %
        3519 %
                    if$
        3520 %
        3521 % if$
        3522 author.title.sort
        3523
        3524 *
        3525 year field.or.null sortify
        3526 *
```

3481 } 3482 ⟨/natbib⟩

3527 "

```
3528 *
3529 %cite$
3530 title field.or.null sort.format.title
3531 *
3532 #1 entry.max$ substring$
3533 'sort.label :=
3534 sort.label *
3536 #1 entry.max$ substring$
3537
     'sort.key$ :=
3538 }
3539 (/natbib)
3540 \langle / sort \rangle
3541
3542 (*!sort)
3543 (*natbib)
3544 INTEGERS { seq.num }
3546 FUNCTION {init.seq}
3547 { #0 'seq.num :=}
3548
3549 EXECUTE {init.seq}
3550
3551 FUNCTION {int.to.fix}
3552 { "000000000" swap$ int.to.str$ *
3553 #-1 #10 substring$
3554 }
3555
3556 FUNCTION {presort}%#3
3557 {
3558 calc.label
                               % computes label
3559 label sortify
                               % initiates sort.label
3560 "
3561 *
3562 seq.num #1 + 'seq.num := % advance seq.num
3563 seq.num int.to.fix % prepend seq.num with Os
3564 'sort.label :=
                              % set sort.label to seq.num
3565 sort.label *
                              % append seq.num to label
3566 #1 entry.max$ substring$ % cut if too long
      'sort.key$ :=
3567
                              % set sort.key$
3568 }
3569 (/natbib)
3570 (/!sort)
3571
3572 (*sort | natbib)
3573 ITERATE {presort}
3574
3575 SORT
3577 (/sort | natbib)
```

## 6.19 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.

```
3579 (!natbib) STRINGS { longest.label }
                  3580 (natbib) STRINGS { longest.label last.label next.extra }
                  3581
                  3582 (!natbib) INTEGERS { number.label longest.label.width }
                  3583 (natbib) INTEGERS { number.label longest.label.width last.extra.num }
ize.longest.label
                        Initialize those string.
                  3585 (*!natbib)
                  3586 FUNCTION {initialize.longest.label}
                  3587 { "" 'longest.label :=
                        #1 'number.label :=
                  3588
                         #0 'longest.label.width :=
                  3589
                  3590 }
                  3591 (/!natbib)
                  3592 (*natbib)
                  3593 FUNCTION {initialize.longest.label}
                  3594 { "" 'longest.label :=
                  3595 #0 int.to.chr$ 'last.label :=
                         "" 'next.extra :=
                  3596
                         #0 'longest.label.width :=
                  3597
                         #0 'last.extra.num :=
                         #0 'number.label :=
                  3599
                  3600 }
                  3601 (/natbib)
                  3602
                  3603 EXECUTE {initialize.longest.label}
                        Iterate though the list of entries to compute label.
ize.longest.label
                  3605 (*!natbib)
                  3606 FUNCTION {forward.pass}
                  3607 { number.label int.to.str$ 'label :=
                         number.label #1 + 'number.label :=
                         label width$ longest.label.width >
                  3609
                           { label 'longest.label :=
                  3610
                             label width$ 'longest.label.width :=
                  3611
                  3612
                  3613
                           'skip$
                  3614
                        if$
                  3615 }
                  3616 (/!natbib)
```

```
3617 (*natbib)
             3618 FUNCTION {forward.pass}
             3619 { last.label label =
                      { last.extra.num #1 + 'last.extra.num :=
             3620
                        last.extra.num int.to.chr$ 'extra.label :=
             3621
             3622
                      { "a" chr.to.int$ 'last.extra.num :=
             3623
                        "" 'extra.label :=
             3624
             3625
                        label 'last.label :=
             3626
             3627
                   if$
                   number.label #1 + 'number.label :=
             3628
             3629 }
             3630 (/natbib)
             3631
             3632 ITERATE {forward.pass}
             3633
                   Natbib styles require reverse iteration over all entries.
reverse.pass
             3634 (*natbib)
             3635 FUNCTION {reverse.pass}
             3636 { next.extra "b" =
                      { "a" 'extra.label := }
             3637
             3638
                      'skip$
             3639
                   if$
             3640
                   extra.label 'next.extra :=
                   extra.label
             3641
             3642
                   duplicate$ empty$
             3643
                      'skip$
                      { "{\natexlab{" swap$ * "}}" * }
             3644
             3645
                    if$
             3646
                    'extra.label :=
             3647
                    %%label extra.label * 'label :=
             3648 }
             3649
             3650 REVERSE {reverse.pass}
             3651
             3652 FUNCTION {bib.sort.order}
             3653 { sort.label 'sort.key$ :=
             3654 }
             3655
             3656 ITERATE {bib.sort.order}
             3657
             3658 SORT
             3659 (/natbib)
                Within thebibliography environment we define few formatting macros for user to customize how
   begin.bib
               the reference list is formatted.
             3661 FUNCTION {begin.bib}
             3662 { "\begin{thebibliography}{" longest.label * "}" * write$ newline$
```

```
"\def\selectlanguageifdefined#1{"
        3663
                                                                    write$ newline$
        3664
              "\expandafter\ifx\csname date#1\endcsname\relax"
                                                                    write$ newline$
               "\else\language\csname 10#1\endcsname\fi}"
                                                                     write$ newline$
        3665 %
              "\else\selectlanguage{#1}\fi}"
                                                                    write$ newline$
        3666
              "\providecommand*{\href}[2]{{\small #2}}"
                                                                    write$ newline$
        3667
              "\providecommand*{\url}[1]{{\small #1}}"
                                                                    write$ newline$
        3668
              "\providecommand*{\BibUrl}[1]{\url{#1}}"
                                                                    write$ newline$
        3669
        3670
              "\providecommand{\BibAnnote}[1]{}"
                                                                    write$ newline$
        3671
              "\providecommand*{\BibEmph}[1]{#1}"
                                                                    write$ newline$
              "\ProvideTextCommandDefault{\cyrdash}{\iflanguage{russian}{\hbox to.8em{--\hss--}}{\textemdash}}" write$ no
        3672
              "\providecommand*{\BibDash}{\ifdim\lastskip>0pt\unskip\nobreak\hskip.2em plus 0.1em\fi" write$ newline$
        3673
              "\cyrdash\hskip.2em plus 0.1em\ignorespaces}" write$ newline$
        3674
              "\renewcommand{\newblock}{\ignorespaces}" write$ newline$
        3675
        3676 (natbib) "\providecommand{\natexlab}[1]{#1}" write$ newline$
              preamble$ empty$
        3677
                'skip$
        3678
        3679
                { preamble$ write$ newline$ }
              if$
        3680
        3681 }
        3682
        3683
        3684 EXECUTE {begin.bib}
        3686 EXECUTE {init.state.consts}
        3687
        3688 ITERATE {call.type$}
        3689
end.bib
        3690 FUNCTION {end.bib}
        3691 { newline$
        3692 % "\catcode'\/=11"
                                        write$ newline$
             "\end{thebibliography}" write$ newline$
        3694 }
        3695
        3696 EXECUTE {end.bib}
        3697
        3698 (/bst)
```

## 7 Change History

```
v0.8
                                     v1.1
  General: entry field annote added . . . . . . . . 8
                                        General: Entry type Conline added ..... 73
    macro \BibAnnote added ..... 59, 91
                                          entry type Conline added .....
    macro \BibEmph added ..... 15, 91
                                     v1.2
    macro \BibUrl added ..... 58, 91
                                        General: @report entry ..... 74
v0.9
                                          entry field medium added ..... 8
  General: bug fix in @inproceedings entry
                                          entry fields eprint, eprintclass,
```

eprinttype $\dots \dots \dots$	@docthesis	7
entry fields eprint, eprintclass,	location field added as alias to address	
eprinttype added 8	field	37
fix bbl.urldate for ukrainian (Andrey	media field normalised	28
Shvajkoy)	number field is now alias to	
v1.2a	specialitycode	3
General: default for \cyrdash added 91	school field is now alias to instituttion	
v1.2b	corrected bbl.phdthesis and bbl.docthesis	
General: entry field numpages renamed to	to comply GOST	27
pagetotal	entry @MastersThesis added again (see	
v1.2c	v1.1)	76
General: entry field eid added 8, 53, 54	field date added	8
entry field langid added 8, 50	field specialitycode added	8
fix Gost2003: " replaced by macro	typo fix in format.month	40
\BibDash 10, 40	v1.2j	
v1.2d	General: extraction of year from date added	40
General: \bbljan etc. macros removed 79	new function date.to.day	39
v1.2e	new function date.to.month	
General: bbl.url added to replace URL	new function date.to.year	
string	new function year.or.date.to.year	
v1.2f	v1.2k	
General: entry patent added 8	General: added bbl.arxiv, bbl.jstor, etc.	35
entry field patent added 62	· · · · · · · · · · · · · · · · · · ·	3
v1.2i	formatting of doi field updated	
General: @dscithesis entry renamed to	function emphasize modified	

# 8 Index

Numbers written in dark blue refer to the page where the corresponding entry is described; numbers in black roman refer to the code lines where the entry is used.

Symbols	bbl.apr 31	bbl.in
add.blank 13	bbl.arxiv 35	bbl.jan 31
add.doi 59	bbl.aug 31	bbl.jstor 35
add.media 60	bbl.chief 29	bbl.jul 31
add.number 62	bbl.compiler 19	bbl.jun 31
address.or.location 37	bbl.dec 31	bbl.mar 31
and 13	bbl.docthesis 27	bbl.mathesis 26
article 64	bbl.edby 18	bbl.may 31
author.editor.key.label . $47$	bbl.edition 19	bbl.media.eresource 28
author.editor.sort 86	bbl.etal 21	bbl.media.online 28
author.key.label 46	bbl.executor 29	bbl.media.text 28
author.key.organization.label		bbl.media 29
47	bbl.googlebooks 35	bbl.nnoaddress 27
author.organization.sort . $86$	bbl.hdl 35	bbl.nnopublisher 28
author.sort 85	bbl.iin 24	bbl.nnr 23
	bbl.iissue 20	
bbl.and 22	bbl.iiss 21	bbl.nopublisher $\dots 27$

	10	1.7
bbl.nov 31	fin.entry 12	n.dashify
bbl.nr 23	fmt.names.all	new.block.checka 14
bbl.number 22	fmt.names.brief 45	new.block.checkb 14
bbl.oct 31	fmt.names.first 41	new.block 12
bbl.of 21	fmt.names.three 41	new.colon 12
bbl.pages 24	format.annote 59	new.dblslash.checka 14
bbl.page 24	format.author.rest 44	new.dblslash 12
bbl.phdthesis 27	format.author 43	new.semicolon 12
bbl.ppages 24	format.bookauthors.rest . 44	new.sentence.checka 14
$\texttt{bbl.ppage}  \dots  25$	format.bookauthors 43	new.sentence.checkb $\dots$ 14
bbl.priority 30	format.bvolume 51	new.sentence 13
bbl.publ 30	format.chapter.pages $55$	new.slash 12
bbl.pubmed 35	format.chief.rest 44	non.stop 14
bbl.req 30	format.compiler.rest $45$	not 13
bbl.sep 31	format.date 40	online 72
bbl.techreport 26	format.edition 53	or 13
bbl.thesis.type 55	format.editors.rest 44	output.address.publisher . 49
bbl.urldate 25	format.eprint 61	output.author.head 56
bbl.url 25	format.executor.rest 45	output.author.rest 57
bbl.vvolume 20	format.isbn 59	output.bibitem 50
bbl.vvol 20	format.key 46	output.check 11
begin.bib 91	format.month 39	output.nonnull 10
bookauthor.head 57	format.names.key 46	output.url 59
bookauthor.rest 58	format.number.series 51	output
booklet	format.number 55	paranthesify
book	format.pages.page 54	patent
bracify		
bracketise	format prioritydate 63	phdthesis
	format.prioritydate 63	presort
	format.publicationdate 63	proceedings
calc.long.list	format.requestdate 63	report 74
calc.short.list 48	format.techrep.type.number	reset.language 10
chop.word		reverse.pass 91
conference	format.thesis.type 56	set.language 10
convert.edition 52	format.type.number 62	sort.format.names 84
date.to.day	format.url 58	sort.format.title 85
date.to.month	format.vol.num.pages 54	sortify
date.to.year 37	format.volume 54	spaces.around 15
default.type 79	ielectronic	specialitycode.or.number.37
docthesis 77	inbook 66	techreport 78
editor.key.organization.label	incollection 67	thesis
47	init.state.consts 9	tie.connect 17
editor.organization.rest . 58	initialize.longest.label . $90$	tie.or.space.connect 17
editor.organization.sort . 86	inproceedings 68	unpublished 72
either.or.check 15	institution.or.school 37	webpage
emphasize 15	internet 73	www
empty.misc.check 55	is.num 16	year.or.date.to.year 39
end.bib 92	manual 69	
eng.ord 52	mastersthesis	В
extract.num 16	misc 71	\BibAnnote 2286, 3670
field.or.null 15	multi.page.check 18	\BibDash 162, 1493, 1495, 3673

\BibEmph	350, 3671	\BibUrl	2265, 3669		${f C}$	
\bibitem	10, 11, 12, 1901, 1918			\cyrdash		3672, 3674