

The GOST package

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Abstract

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

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

1 Introduction

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Kotelnikov to the present status and some code was borrowed from `disser` package developed by Stanislav Kruchinin and unpublished work by Artem Petrenkov.

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

The System of Standards includes:

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

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

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

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

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

ect.

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

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

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

Style	utf8	strict	modern	eprint	long	sort	natbib
<i>gost780</i>							
<i>gost780s</i>						+	
<i>gost2003</i>		+			+		
<i>gost2003s</i>		+			+		+
<i>gost2008</i>			+	+			
<i>gost2008n</i>			+	+			+
<i>gost20081</i>			+	+	+		
<i>gost2008s</i>			+	+		+	
<i>gost2008ns</i>			+	+		+	+
<i>gost2008ls</i>		+	+	+	+	+	
<i>ugost2003</i>	+	+			+		
<i>ugost2003s</i>	+	+			+		+
<i>ugost2008</i>	+			+	+		
<i>ugost2008n</i>	+			+	+		+
<i>ugost20081</i>	+			+	+	+	
<i>ugost2008s</i>	+			+	+	+	
<i>ugost2008ns</i>	+			+	+	+	+
<i>ugost2008ls</i>	+			+	+	+	

Style	utf8	strict	modern	eprint	long	sort	natbib
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Gost2008 style is recommended for most applications. It corresponds to the currently effective Standard 7.0.5-2008. Librarians should use the style *gost2003* instead of *gost2008* to compile a library catalog to meet the Standard 7.1-2003. Use of other styles is best explained through the meaning of options used to compile those styles from the master source.

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

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

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

If the number of authors exceeds 4, modern styles cut the list of authors to at most 4 persons as prescribed by the Standards. Option `long` overrides this rule to provide backward compatibility with the package `disser` by Stanislav 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 `l`. 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 than 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		ruscii.csf	Cyrillic first, Latin
cp1251		cp1251.csf	Cyrillic first, Latin
koi8-u		koi8u.csf	Cyrillic first, Latin
utf8		utf8cyrillic.csf	Cyrillic first, Latin

In addition, BibTeX8 distribution comes with few more CSFs.

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

1.1 How to use

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

```
\bibliographystyle{gost2008}
\bibliography{database}
```

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

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

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

1.2 Customization

Every GOST style defines few commands to format some parts of a reference. You can redefine these commands prior to the `\bibliography{<bibtex_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 than ordinary LaTeX dash (---), and puts unbreakable space before `\cyrdash` so that dash never appears in the beginning of a line.

1.3 Where to get

1. [CTAN:biblio/bibtex/contrib/gost](#).
2. [CTAN:pkg/gost](#).

1.4 What's new in version 1.2d (2015.02.18)

1. jan, feb, e.t.c. macros fixed.
2. New macro `format.month`.

1.5 What's new in 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 (`\cyrdahs`) 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.)

1.6 What's new in version 1.2a (2012.08.31)

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

1.7 What's new in 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.

1.8 What's new in version 1.1 (2012.01.21)

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

1.9 Version history

2012.02.22 Support for `natbib` package.

2012.02.02 Adaptation to GOST 7.0.5, electronic publishing.

2005.08.12 First version uploaded to CTAN.

2003.06.06 First public version.

2 Implementation

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

```
1 <*bst>
2 %%
3 %% This bibstyle attempts to format bibliography according to
4 <!modern>%> GOST 7.80-2000 for bibliographic records.
5 <modern>%> GOST 7.0.5-2008 for bibliographic reference.
6 <*natbib>%%
7 %-----%
8 %% This is an author-year citation style bibliography.
9 %% It requires a special package file to function properly
10 %% such as natbib.sty by Patrick W. Daly.
11 %% The form of the \bibitem entries is
12 %% \bibitem[Jones et al.(1990)]{key}...
13 %% \bibitem[Jones et al.(1990)Jones, Baker, and Smith]{key}...
14 %% where the label part (in brackets) consists of the author names,
15 %% as they should appear in the citation, with the year in parentheses following.
16 %% There must be no space before the opening parenthesis!
17 %% A full list of authors may also follow the year.
18 %% In natbib.sty, it is possible to define the type of enclosures that is
19 %% really wanted (brackets or parentheses), but in either case, there must
20 %% be parentheses in the label.
21 %% The \cite command functions as follows:
22 %%   \citet{key}           => Jones et al. (1990)
23 %%   \citet*{key}        => Jones, Baker, and Smith (1990)
24 %%   \cite{key}          => (Jones et al., 1990)
```

```

25 %%  \cite*{key}          => (Jones, Baker, and Smith, 1990)
26 %%  \cite[chap. 2]{key}    => (Jones et al., 1990, chap. 2)
27 %%  \cite[e.g.][]{key}     => (e.g. Jones et al., 1990)
28 %%  \cite[e.g.]{p. 32}{key} => (e.g. Jones et al., p. 32)
29 %%  \citeauthor{key}        => Jones et al.
30 %%  \citeauthor*{key}       => Jones, Baker, and Smith
31 %%  \citeyear{key}          => 1990
32 %%-----
33 </natbib>
34

```

2.1 Fields

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

```

35 ENTRY
36   { address
37   annotate
38   author
39   booktitle
40   bookauthor
41   chapter
42   edition
43   editor
44   compiler
45   howpublished
46   institution
47   journal
48   key
49   month
50   note
51   number
52   organization
53   pages
54   eid % new in v1.2c
55   publisher
56   school
57   series
58   title
59   medium % new in v1.2.
60   type
61   volume
62   year
63   language
64   langid % new in v1.2c
65   booklanguage

```

Remaining entries are borrowed from biblatex.

```

66   pagetotal
67   url

```

```

68     urldate
69     isbn
70     doi
71 %     archive
72     eprinttype    % = archivePrefix
73     eprintclass   % = primaryClass
74     eprint
75 }
76 {}
77 <!natbib> { label }
78 <natbib> { label extra.label sort.label short.list }
79

Declare internal variables and constants used in to format references.

80 INTEGERS { output.state before.all mid.sentence after.sentence after.block
81 after dblslash after.slash after.column after.semicolumn }
82

init.state.consts

83 FUNCTION {init.state.consts}
84 { #0 'before.all :=
85   #1 'mid.sentence :=
86   #2 'after.sentence :=
87   #3 'after.block :=
88   #4 'after.dblslash :=
89   #5 'after.slash :=
90   #6 'after.column :=
91   #7 'after.semicolumn :=
92 }
93
94 STRINGS { s t }
95
96 STRINGS { curlanguage }
97

```

2.2 Formatting functions

change.language Declare function to switch language.

```

98 FUNCTION {change.language}
99 { booklanguage empty$
100   { "" }
101   { booklanguage 'curlanguage :="
102     "\selectlanguage{ifdefined{""
103       curlanguage *
104     "}" *
105   }
106   if$
107 }
108

```

outputnonnull Declare functions to output various parts of bibliographic record.

```

109 FUNCTION {outputnonnull}
110 {
111   swap$
112   output.state mid.sentence =
113   { ", " * write$ }
114   { output.state after.block =
115     { add.period$ write$ "
116   <!modern>           " \BibDash " write$ %%" " quote$ --- " * * write$ % since v1.2c
117   <modern>             " \BibDash " write$ "
118     newline$ "
119     "\newblock " write$ "
120   }
121   { output.state before.all =
122     'write$ "
123     { output.state after.dblslash =
124       { "~~// " * change.language * " " * write$ }
125       { output.state after.slash =
126         { "~~/ " * write$ }
127         { output.state after.column =
128   <!(strict | modern)>           { ":" " * write$ }
129   <strict | modern>             { "~: " * write$ }
130             { output.state after.semicolumn =
131   <!(strict | modern)>           { ";" " * write$ }
132   <strict | modern>             { "~; " * write$ }
133             { add.period$ " " * write$ }
134             if$
135           }
136           if$
137           }
138           if$
139           }
140           if$
141           }
142           if$
143           }
144           if$
145           mid.sentence 'output.state :=
146         }
147       if$
148     }
149

output
output.check 150 FUNCTION {output}
151 { duplicate$ empty$
152   'pop$
153   'outputnonnull
154   if$
155 }
156
157 FUNCTION {output.check}

```

```

158 { 't :=
159   duplicate$ empty$
160   { pop$ "empty " t * " in " * cite$ * warning$ }
161   'outputnonnull
162   if$
163 }
164

fin.entry      fin.entry finalizes current entry. It writes dot, if no dot is found in stack, and starts new line.
165 FUNCTION {fin.entry}
166 { add.period$
167   write$
168   newline$
169 }
170

new.block      Declare family of functions to put punctuation marks depending of current status of output
               stack. The just check output state and revert it another state if required. Checking output state
               prevents occasional doubling of punctuation marks.
171 FUNCTION {new.block}
172 { output.state before.all =
173   'skip$
174   { after.block 'output.state := }
175   if$
176 }
177

new.dblslash
178 FUNCTION {new.dblslash}
179 { output.state before.all =
180   'skip$
181   { after.dblslash 'output.state := }
182   if$
183 }
184

new.slash
185 FUNCTION {new.slash}
186 { output.state before.all =
187   'skip$
188   { after.slash 'output.state := }
189   if$
190 }
191

new.column
192 FUNCTION {new.column}
193 { output.state before.all =
194   'skip$
195   { after.column 'output.state := }
196   if$
197 }
198

```

```

new.semicolumnm
199 FUNCTION {new.semicolumn}
200 { output.state before.all =
201     'skip$
202     { after.semicolumn 'output.state := }
203     if$
204 }
205

new.sentence
206 FUNCTION {new.sentence}
207 { output.state after.block =
208     'skip$
209     { output.state before.all =
210         'skip$
211         { after.sentence 'output.state := }
212         if$
213     }
214     if$
215 }
216

add.blank
217 FUNCTION {add.blank}
218 { " " * before.all 'output.state :=
219 }
220

not      Declare few logical functions.
221 FUNCTION {not}
222 { { #0 }
223   { #1 }
224   if$
225 }
226

and
227 FUNCTION {and}
228 { 'skip$
229   { pop$ #0 }
230   if$
231 }
232

or
233 FUNCTION {or}
234 { { pop$ #1 }
235   'skip$
236   if$
237 }
238

```

```

chop.word The function chop.word in substr len str chop.word removes given substring substr of length
len from the beginning of the string str.
239 <*sort | natbib>
240 INTEGERS { len }
241
242 FUNCTION {chop.word}
243 { 's :=
244   'len :=
245   s #1 len substring$ =
246   { s len #1 + global.max$ substring$ }
247   's
248   if$
249 }
250 </sort | natbib>
251

non.stop
252 FUNCTION {non.stop}
253 { duplicate$"
254   "}" * add.period$"
255   #-1 #1 substring$ "." =
256 }
257

new.block.checka
258 FUNCTION {new.block.checka}
259 { empty$"
260   'skip$"
261   'new.block
262   if$"
263 }
264

new.block.checkb
265 FUNCTION {new.block.checkb}
266 { empty$"
267   swap$ empty$"
268   and
269   'skip$"
270   'new.block
271   if$"
272 }
273

w.sentence.checka
274 FUNCTION {new.sentence.checka}
275 { empty$"
276   'skip$"
277   'new.sentence
278   if$"
279 }
280

```

```
w.sentence.checkb
281 FUNCTION {new.sentence.checkb}
282 { empty$ swap$ empty$
283   and
284   'skip$
285   'new.sentence
286   if$
287 }
288 }
289

w.dblslash.checka For online entry.
290 FUNCTION {new.dblslash.checka}
291 { empty$ swap$ empty$
292   'skip$
293   'new.dblslash
294   if$
295 }
296

field.or.null
297 FUNCTION {field.or.null}
298 { duplicate$ empty$ swap$ empty$ if$ }
299   { pop$ "" } swap$ empty$ if$ }
300   'skip$
301 }
302 }

emphasize Declare function to emphasize last string in stack.
304 FUNCTION {emphasize}
305 { duplicate$ empty$ swap$ empty$ if$ }
306   { pop$ "" } swap$ empty$ if$ }
307   { "\BibEmph{" swap$ * "}" * } swap$ empty$ if$ }
308 }
309 }

e.square.brackets New in v.1.2. Declare function to enclose last word in square brackets. It do so only for the
string option.
311 <!*strict>
312 FUNCTION {enclose.square.brackets} { }
313 </!strict>
314 <*strict>
315 FUNCTION {enclose.square.brackets}
316 { duplicate$ empty$ swap$ empty$ if$ }
317   { pop$ "" } swap$ empty$ if$ }
318   { "[" swap$ * "]" * } swap$ empty$ if$ }
319 }
320 }

321 </strict>
322
```

```

323
324 % \DescribeFunction{bracify}
325 % \DescribeFunction{bracketise}
326 % \DescribeFunction{parenthesify}
327 % New in v.1.2. An idea borrowed from apsrev4-1 bst.
328 % Declare function to enclose last word in braces, square brackets and
329 % parenthesis.
330 %   \begin{macrocode}
331 FUNCTION {bracify}
332 { duplicate$ empty$
333   { pop$ "{}" }
334   { "{ " swap$ * "}" * }
335   if$
336 }
337 FUNCTION {bracketise}
338 { duplicate$ empty$
339   { pop$ "[]" }
340   { "[ " swap$ * "]" * }
341   if$
342 }
343 FUNCTION {parenthesify}
344 { duplicate$ empty$
345   { pop$ "()" }
346   { "(" swap$ * ")" * }
347   if$
348 }
349
350
space.word      space.word inserts space before last string in stack.
351 FUNCTION {space.word}
352 { " " swap$ * " " * }
353

```

2.3 Standard abbreviations

`bb1.edby` Declare language-sensitive abbreviations.

```

354 FUNCTION {bb1.edby}    % { "\bbledby{}" }
355 { curlanguage "english" =
356   {"Ed.\ by"}
357   { curlanguage "ukrainian" =
358   {!utf8}      {"{\cyr\CYRP\cyrii\cyrd\ \cyrr\cyre\cyrd.}"}
359   {utf8}       {"Під ред."}
360   { curlanguage "russian" =
361   {!utf8}      {"{\cyr\CYRP\cyro\cyrd\ \cyrr\cyre\cyrd.}"}
362   {utf8}       {"Под ред."}
363   { curlanguage "german" =
364     { "ed." }
365     {"language is not defined: " language "edby" * * warning$ "Ed.\ by"}
366     if$}

```

```

367      if$}
368      if$}
369 if$}
370
bbl.cmplr
371 FUNCTION {bbl.cmplr}
372 { curlanguage "english" =
373   { "Compiler" }
374   { curlanguage "german" =
375     { "Hrsg." }
376     { curlanguage "ukrainian" =
377       {"{\cyr\CYRU\cyrk\cyrl.}"}
378     {utf8}      {"{Укп.}"}
379     { curlanguage "russian" =
380       {"{\cyr\CYRS\cyro\cyrs\cyrt.}"}
381     {utf8}      {"{Coct.}"}
382     {"language is not defined: " language "cmplr" * * warning$ "Compiler"}
383     if$}
384     if$}
385     iff$}
386 if$}
387

bbl.edition
388 FUNCTION {bbl.edition} % { "\bbledition{}" }
389 { curlanguage "english" =
390   {"edition"}
391   { curlanguage "ukrainian" =
392     {"{\cyr\cyrv\cyri\cyrd.}"}
393     {utf8}      {"{вид.}"}
394     { curlanguage "russian" =
395       {"{\cyr\cyri\cyrz\cyrd.}"}
396     {utf8}      {"{изд.}"}
397     { curlanguage "german" =
398       {"{aus.}" } %% { "Aufl." } ??
399     { curlanguage "italian" =
400       {"edizione"}
401       { curlanguage "french" =
402         {"'{e}dition"}
403         {"language is not defined: " language "edition" * * warning$ "edition"}
404         if$}
405         iff$}
406         if$}
407         iff$}
408     iff$}
409 if$}
410

bbl.vvolume
411 FUNCTION {bbl.vvolume} % { "\bb1Volume{}" }
412 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or

```

```

413 {"Volume"}
414 { curlanguage "ukrainian" = curlanguage "russian" = or
415 ⟨!utf8⟩ { "\CYRT\cyro\cyrm" }
416 ⟨utf8⟩ { "Tom" }
417 { curlanguage "german" =
418 {"{Band}"} %%% { "Volumen" }
419 {"language is not defined: " language "vvolume" * * warning$ "Volume"}
420 if$}
421 if$}
422 if$}
423

bbl.vvol
424 FUNCTION {bbl.vvol} % { "\bblVol{}" }
425 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
426 {"Vol."}
427 { curlanguage "ukrainian" = curlanguage "russian" = or
428 ⟨!utf8⟩ {"\CYRT."}
429 ⟨utf8⟩ {"T."}
430 { curlanguage "german" =
431 {"{Bd.}"} %%% { "Vol." }
432 {"language is not defined: " language "vvol" * * warning$ "Vol."}
433 if$}
434 if$}
435 if$}
436

bbl.iissue
437 FUNCTION {bbl.iissue} % { "\bblIssue{}" }
438 { curlanguage "english" =
439 {"Issue"}
440 { curlanguage "ukrainian" =
441 ⟨!utf8⟩ {"\CYRV\cyri\cyrp\cyru\cyrs\cyrk"}
442 ⟨utf8⟩ {"Випуск"}
443 { curlanguage "russian" =
444 ⟨!utf8⟩ {"\CYRV\cyrery\cyrp\cyru\cyrs\cyrk"}
445 ⟨utf8⟩ {"Выпуск"}
446 { curlanguage "german" =
447 {"{Heft}"} %%% { "Ausgabe" }
448 {"language is not defined: " language "iissue" * * warning$ "Issue"}
449 if$}
450 if$}
451 if$}
452 if$}
453

bbl.iiss
454 FUNCTION {bbl.iiss} % { "\bblIss{}" }
455 { curlanguage "english" =
456 {"Iss."}
457 { curlanguage "ukrainian" =
458 ⟨!utf8⟩ {"\CYRV\cyri\cyrp."}

```

```

459 <utf8>      {"Биll."}
460      { curlanguage "russian" =
461 <!utf8>          {"\CYRV\cyrery\cyp."}
462 <utf8>      {"Биll."}
463      { curlanguage "german" =
464          {"{H.}"}
465          {"language is not defined: " language "iiss" * * warning$ "Iss."}
466          if$}
467      if$}
468      if$}
469 if$}
470

bb1.of

471 FUNCTION {bb1.of}      % { "\bblof{}" }
472 { curlanguage "english" =
473     {"of"}
474     { curlanguage "german" =
475         {"von" }
476         { curlanguage "ukrainian" =
477 <!utf8>             {"{\cyr\cyrii\cyrz}" }
478 <utf8>             {"{i3}" }
479         { curlanguage "russian" =
480 <!utf8>             {"{\cyr\cyri\cyrz}" }
481 <utf8>             {"{uz}" }
482             {"language is not defined: " language "of" * * warning$ "of"}
483             if$}
484         if$}
485     if$}
486 if$}
487

bb1.etal

488 FUNCTION {bb1.etal}      % { "\bblof{}" }
489 { curlanguage "english" =
490     {"et~al."}
491     { curlanguage "german" =
492         {"u.~a." }
493         { curlanguage "ukrainian" =
494 <!utf8>             {"{\cyr\cyrt\cyra^{\cyrii\cyrn.}}"}
495 <utf8>             {"{ta^ih.}"}
496         { curlanguage "russian" =
497 <!utf8>             {"{\cyr\cyri^{\cyrd\cyrr.}}"}
498 <utf8>             {"и^дп."}
499             {"language is not defined: " language "et~al" * * warning$ "et~al."}
500             if$}
501         if$}
502     if$}
503 if$}
504

```

bb1.and

```

505 {*natbib}
506 FUNCTION {bbl.and}      % { "\bbland{}" }
507 { curlanguage "english" =
508   {"and"}
509   { curlanguage "german" =
510     {"und" }
511     { curlanguage "ukrainian" =
512       {"{\cyrii}"}
513       {"i"}
514     { curlanguage "russian" =
515       {"{\cyri}"}
516       {"u"}
517     {"language is not defined: " language "and" * * warning$ "and"}
518     if$}
519     if$}
520   if$}
521 if$}
522{/natbib}
523

bbl.nnumber
524 FUNCTION {bbl.nnumber} % { "\bblNumber{}" }
525 { curlanguage "english" =
526   {"Number"}
527   { curlanguage "ukrainian" = curlanguage "russian" = or
528   {!utf8} { "\CYRN\cyro\cyrm\cyre\cyrr" }
529   {utf8} { "{Homep}" }
530   { curlanguage "german" =
531     {"{Heft}" } %%% { "Anzahl" }
532     {"language is not defined: " language "nnumber" * * warning$ "Number"}
533     if$}
534   if$}
535 if$}
536

bbl.number
537 FUNCTION {bbl.number} % { "\bblnumber{}" }
538 { curlanguage "english" =
539   {"number"}
540   { curlanguage "ukrainian" = curlanguage "russian" = or
541   {!utf8} { "\cyr\cyrn\cyro\cyrm\cyre\cyrr" }
542   {utf8} { "{Homep}" }
543   { curlanguage "german" =
544     {"{Heft}" } %%% { "anzahl" }???
545     {"language is not defined: " language "number" * * warning$ "number"}
546     if$}
547   if$}
548 if$}
549

bbl.nr
550 FUNCTION {bbl.nr}      % { "\bblno{}" }

```

```

551 { curlanguage "english" =
552   {"no."}
553   { curlanguage "italian" =
554     {"no" }
555     { curlanguage "ukrainian" = curlanguage "russian" = or
556 <!utf8>           {"{\cyr\textnumero}" }
557 <utf8>           {"{\#}" }
558     { curlanguage "german" =
559       {"{H.}" } %% { "an." }
560       {"language is not defined: " language "nr" * * warning$ "no."}
561       if$}
562     if$}
563   if$}
564 if$}
565

bbl.nnr
566 FUNCTION {bbl.nnr}    %  { "\bblno{}" }
567 { curlanguage "english" =
568   {"No."}
569   { curlanguage "ukrainian" = curlanguage "russian" = or
570 <!utf8>           {"{\cyr\textnumero}" }
571 <utf8>           {"{\#}" }
572   { curlanguage "german" =
573     {"{H.}" } %% { "an." }
574     {"language is not defined: " language "nnr" * * warning$ "No."}
575     if$}
576   if$}
577 if$}
578

bbl.in
579 FUNCTION {bbl.in}    %  { "\bblin{}" }
580 { curlanguage "english" = curlanguage "german" = or
581   {"in"}
582   { curlanguage "ukrainian" = curlanguage "russian" = or
583 <!utf8>           {"{\cyr\cyrv}" }
584 <utf8>           {"{\B}" }
585     {"language is not defined: " language "in" * * warning$ "in"}
586     if$}
587 if$}
588

bbl.iin
589 FUNCTION {bbl.iin}  %  { "\bbliIn{}" }
590 { curlanguage "english" = curlanguage "german" = or
591   {"In"}
592   { curlanguage "ukrainian" = curlanguage "russian" = or
593 <!utf8>           {"\CYRV" }
594 <utf8>           {"{\B}" }
595     {"language is not defined: " language "iin" * * warning$ "In"}
596     if$}

```

```

597 if$}
598
bbl.pages
599 FUNCTION {bbl.pages}  % { "\bblpp." }
600 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
601   {"p."} %%% {"pp."}
602   { curlanguage "ukrainian" = curlanguage "russian" = or
603   {!utf8}      {"{\cyr\cyrs.}"}
604   {utf8}      {"{c.}"}
605   { curlanguage "german" =
606     {"S."} %%% {"s." }
607     {"language is not defined: " language  "pages" * * warning$ "p."}
608   if$}
609   iff$}
610 if$}
611
bbl.page
612 FUNCTION {bbl.page}  %  { "\bblp." }
613 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
614   {"p."}
615   { curlanguage "ukrainian" = curlanguage "russian" = or
616   {!utf8}      {"{\cyr\cyrs.}"}
617   {utf8}      {"{c.}"}
618   { curlanguage "german" =
619     {"S."} %%% {"s." }
620     {"language is not defined: " language  "page" * * warning$ "p."}
621   if$}
622   iff$}
623 if$}
624
bbl.ppages
625 FUNCTION {bbl.ppages}%  { "\bblPp." }
626 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
627   {"P."} %%% {"Pp."}
628   { curlanguage "ukrainian" = curlanguage "russian" = or
629   {!utf8}      {"{\cyr\CYRS.}"}
630   {utf8}      {"{C.}"}
631   { curlanguage "german" =
632     {"S."}
633     {"language is not defined: " language  "ppages" * * warning$ "P."}
634   if$}
635   iff$}
636 if$}
637
bbl.ppage
638 FUNCTION {bbl.ppage}  %  { "\bblP." }
639 { curlanguage "english" = curlanguage "french" = or curlanguage "italian" = or
640   {"P."}

```

```

641 { curlanguage "ukrainian" = curlanguage "russian" = or
642 <!utf8> {"{\cyr\CYRS.}"}
643 <utf8> {"{C.}"}
644 { curlanguage "german" =
645 {"S."}
646 {"language is not defined: " language "ppage" * * warning$ "P."}
647 if$}
648 iff$}
649 if$}
650

bbl.urldate Next function was added in version 2012.01.15.
651 FUNCTION {bbl.urldate}
652 { curlanguage "english" =
653 {"online; accessed"}
654 { curlanguage "ukrainian" =
655 <!utf8> {"{\cyrd\cyra\cyrt\cyra\ \cyrz\cyrv\cyre\cyrr\cyrn\cyre\cyrn\cyrn\cyrya}"}
656 <utf8> {"{дата звернення}"}
657 { curlanguage "russian" =
658 <!utf8> {"{\cyrd\cyra\cyrt\cyra\ \cyro\cyrb\cyrr\cyra\cyrshch\cyre\cyrn\cyri\cyrya}"}
659 <utf8> {"{дата обращения}"}
660 { curlanguage "german" =
661 {"{online; abgerufen}"}
662 {"language is not defined: " language "urldate" * * warning$ "online; accessed" }
663 if$}
664 iff$}
665 if$}
666 if$}
667

bbl.techreport
668 FUNCTION {bbl.techreport} % rename to bbl.techreport
669 { curlanguage "english" =
670 {"Rep."}
671 { curlanguage "german" =
672 {"Bericht"}}
673 { curlanguage "russian" =
674 <!utf8> {"{\cyr\CYR0\cyrt\cyrch\cyre\cyrt}"}
675 <utf8> {"{Отчет}"}
676 {"language is not defined: " language "techrep" * * warning$ "Rep." }
677 if$}
678 iff$}
679 if$}
680

bbl.mthesis
681 FUNCTION {bbl.mthesis}
682 { curlanguage "english" =
683 {"Master's thesis" }
684 { curlanguage "german" =
685 {"Diss. Mag." }
686 { curlanguage "russian" =

```

```

687 <!utf8>      { "\cyr\CYRK\cyrv\cyra\cyl\cyri\cyrf\cyri\cyrk\cyra\cyrc\cyri"
688 <!utf8>      "\cyro\cyrn\cyrn\cyra\cyrya\ \cyrr\cyra\cyrb\cyro\cyrt\cyra\ " *
689 <!utf8>      "\cyrm\cyra\cyrg\cyri\crys\cyrt\cyrr\cyra}" * }
690 <utf8>      { "{Квалификационная работа магистра}" }
691      { "language is not defined: " language "mthesis" * * warning$ "Master's thesis" }
692      if$}
693      iff$}
694 if$}
695

bbl.phdthesis
696 FUNCTION {bbl.phdthesis}
697 { curlanguage "english" =
698   { "Ph.\,D. thesis" }
699   { curlanguage "german" =
700     { "Diss.\,Ph.\,D." }
701     { curlanguage "russian" =
702 <!utf8>      { "\cyr\CYRD\cyri\crys\crys\ldots\ \cyrk\cyra\cyrn\cyrd\cyri"
703 <!utf8>      "\cyrd\cyra\cyrt\cyra\ \cyrn\cyra\cyr\cyrd" * }
704 <utf8>      { "{Дисс.\ldots\ кандидата наук}" }
705      { curlanguage "french" =
706        { "Th\^{e}se de doctorat" }
707        { "language is not defined: " language "phdthesis" * * warning$ "Ph.\,D. thesis" }
708        if$}
709        iff$}
710      iff$}
711 if$}
712

bbl.dscithesis
713 FUNCTION {bbl.dscithesis}
714 { curlanguage "english" =
715   { "Dr.\,Sci. dissertation" }
716   { curlanguage "german" =
717     { "Diss.\,Dr." }
718     { curlanguage "russian" =
719 <!utf8>      { "\cyr\CYRD\cyri\crys\crys\ldots\ \cyrd\cyro\cyrk\cyrt\cyro"
720 <!utf8>      "\cyrr\cyra\ \cyrn\cyra\cyr\cyrd" * }
721 <utf8>      { "{Дисс.\ldots\ доктора наук}" }
722      { "language is not defined: " language "dscithesis" * * warning$ "Dr.\,Sci. dissertation" }
723      if$}
724      iff$}
725 if$}
726

bbl.nnoaddress
727 FUNCTION {bbl.nnoaddress}
728 { curlanguage "english" =
729   { "S.\ 1." }
730   { curlanguage "russian" =
731 <!utf8>      { "{\cyr\CYRB.\ \cyrm.}" }
732 <utf8>      { "{Б.\ м.}" }

```



```

777      if$}
778      if$}
779 if$}
780
781

bbl.chief

782 FUNCTION {bbl.chief}
783 { curlanguage "english" =
784   { "chief" }
785   { curlanguage "russian" =
786 <!utf8>      { "\cyrr\cyr\cyrk." }
787 <utf8>      { "{\p{}}" }
788   { curlanguage "ukrainian" =
789 <!utf8>      { "\cyrr\cyr\cyrk." }
790 <utf8>      { "{\p{}}" }
791   { "language is not defined: " language "chief" * * warning$ "chief" }
792   if$}
793   if$}
794 if$}
795

bbl.executor

796 FUNCTION {bbl.executor}
797 { curlanguage "english" =
798   { "Executor" }
799   { curlanguage "russian" =
800 <!utf8>      { "{\cyr\cyr\crys\cyrp\cyro\cyl\cyrn.}" }
801 <utf8>      { "{\p{}}" }
802   { curlanguage "ukrainian" =
803 <!utf8>      { "{\cyr\cyrv\cyri\cyrk\cyro\cyrn\cyra\cyrv\cyre\cyrc\crysftsn}" }
804 <utf8>      { "{\p{}}" }
805   { "language is not defined: " language "medium" * * warning$ "Executor" }
806   if$}
807   if$}
808 if$}
809

bbl.medium

810 FUNCTION {bbl.medium}
811 { type$ "online" =
812   { bbl.medium.elres }
813   { bbl.medium.text }
814 if$}
815

```

2.4 Formatting functions

Declare functions to format separate elements of bibliographic reference.

```

816 INTEGERS { nameptr namesleft numnames }
817

```

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

Important note

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

```
819 <!*modern>
820 FUNCTION {format.names}
821 {
822 <!utf8> #1 "{vv~}{ll}{~jj}{,~f.}" format.name$ 
823 <utf8> #1 "{vv~}{ll}{~jj}{,~ff}" format.name$ 
824 }
825 </!*modern>
```

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

```
826 <*modern>
827 FUNCTION {format.names}
828 {
829   's :=
830   #1 'nameptr :=
831   s num.names$ 'numnames :=
832   numnames 'namesleft :=
833   { namesleft #0 > }
834   { s nameptr
835 <!utf8>     "{vv~}{ll}{~jj}{~f.}" format.name$ 't :=
836 <utf8>      "{vv~}{ll}{~jj}{~ff}" format.name$ 't :=
837   nameptr #1 >
838   { nameptr #4 =
839     numnames #4 > and
840     { "others" 't :=
841       #1 'namesleft :=
842       'skip$
843     if$
844     namesleft #1 >
845     { ", " * t * }
846     { t "others" =
847       t "~~others" =
848     or
849 <!strict>          { " " * bbl.etal * }
850 <strict>           { " " * bbl.etal enclose.square.brackets *}
851           { ", " * t * }
852         if$
853       }
854     if$
855   }
```

```

856         't
857     if$ 
858     nameptr #1 + 'nameptr :=
859     namesleft #1 - 'namesleft :=
860   }
861   while$
862 }
863 </modern>
864

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

865 <*natbib>
866 FUNCTION {format.lab.names}
867 { 's :=
868   language empty$
869   { "english" 'curlanguage := }
870   { language 'curlanguage := }
871   if$
872   s #1 "{vv~}{ll}" format.name$
873   s num.names$ duplicate$
874   #2 >
875   {%{ pop$ " et~al." * }
876   { pop$ " " bbl.etal * * }
877   { #2 <
878     'skip$
879     { s #2 "{ff }{vv }{ll}{ jj}" format.name$ "others" =
880       %{ " et~al." * }
881       { " " bbl.etal * * }
882       %{ " and " * s #2 "{vv~}{ll}" format.name$ * }
883       { " " bbl.and " " * * * s #2 "{vv~}{ll}" format.name$ * }
884       if$
885     }
886     if$ 
887   }
888   if$ 
889 }
890 </natbib>
891

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

892 FUNCTION {format.names.rev}
893 {
894   's :=
895   #1 'nameptr :=
896   s num.names$ 'numnames :=
897   numnames 'namesleft :=
898   { namesleft #0 > }
899   { s nameptr

```

```

900 <!utf8>      "%{f.}{~vv}{~ll}{, jj}" format.name$ 't :=
901 <!utf8>      "{ff}{~vv}{~ll}{, jj}" format.name$ 't :=
902 <utf8>      "{ff}{~vv}{~ll}{, jj}" format.name$ 't :=
903     nameptr #1 >
904     { nameptr #4 =
905       numnames #4 > and
906       { "others" 't :=
907         #1 'namesleft := }
908       'skip$
909       if$
910       namesleft #1 >
911       { ", " * t * }
912       { t "others" =
913         t "~others" =
914       or
915     <!strict>           { " " * bbl.etal * }
916   <strict>           { " " * bbl.etal enclose.square.brackets * }
917           { ", " * t * }
918           if$
919           }
920           if$
921           }
922           't
923           if$
924           nameptr #1 + 'nameptr :=
925           namesleft #1 - 'namesleft :=
926       }
927     while$
928 }
929

```

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

```

930 <*natbib>
931 FUNCTION {format.key}
932 { empty$ 
933   { key field.or.null }
934   { "" }
935   if$
936 }
937 </natbib>
938

```

`format.authors`

```

939 FUNCTION {format.authors}
940 { author empty$ 
941   { "" }
942   { author format.names emphasize}
943   if$
944 }
945

```

`author.key.label`

```

946 {*natbib}
947 FUNCTION {author.key.label}
948 { author empty$ 
949   { key empty$ 
950     { cite$ #1 #3 substring$ }
951     'key
952   if$ 
953   }
954   { author format.lab.names }
955   if$ 
956 }
957
958 FUNCTION {author.editor.key.label}
959 { author empty$ 
960   { editor empty$ 
961     { key empty$ 
962       { cite$ #1 #3 substring$ }
963       '%key          %% causes lost of year
964       { "{}" key * } %% Bug in bibtex8 ??
965     if$ 
966     }
967     { editor format.lab.names }
968     if$ 
969   }
970   { author format.lab.names }
971   if$ 
972 }
973
974 FUNCTION {author.key.organization.label}
975 { author empty$ 
976   { key empty$ 
977     { organization empty$ 
978       { cite$ #1 #3 substring$ }
979       { "The " #4 organization chop.word #3 text.prefix$ }
980     if$ 
981     }
982     'key
983   if$ 
984   }
985   { author format.lab.names }
986   if$ 
987 }
988
989 FUNCTION {editor.key.organization.label}
990 { editor empty$ 
991   { key empty$ 
992     { organization empty$ 
993       { cite$ #1 #3 substring$ }
994       { "The " #4 organization chop.word #3 text.prefix$ }
995     if$ 

```

```

996      }
997      'key
998      if$
999  }
1000 { editor format.lab.names }
1001 if$
1002 }
1003
1004 FUNCTION {calc.short.authors}
1005 { type$ "book" =
1006   type$ "inbook" =
1007   or
1008   'author.editor.key.label
1009   { type$ "proceedings" =
1010     'editor.key.organization.label
1011     { type$ "manual" =
1012       'author.key.organization.label
1013       'author.key.label
1014       if$
1015     }
1016     if$
1017   }
1018   if$
1019   'short.list :=
1020 }
1021
1022 FUNCTION {calc.label}
1023 { calc.short.authors
1024   short.list
1025   "("
1026   *
1027   year duplicate$ empty$
1028   short.list key field.or.null = or
1029   { pop$ "" }
1030   'skip$
1031   if$
1032   *
1033   'label :=
1034 }
1035
1036 </natbib>
1037

```

`format.bookauthors` This function is used only once, in `bookauthor.before`, and the latter is used only in `inbook` entry.

```

1038 FUNCTION {format.bookauthors}
1039 { bookauthor empty$
1040   { "" }
1041   { bookauthor format.names}
1042   if$
1043 }
```

```

1044
mat.authors.after
1045 FUNCTION {format.authors.after}
1046 { author empty$
1047   { "" }
1048   { author format.names.rev}
1049   if$}
1050 }
1051
bookauthors.after
1052 FUNCTION {format.bookauthors.after}
1053 { bookauthor empty$
1054   { "" }
1055   { bookauthor format.names.rev} % always cuts to 4 persons
1056   if$}
1057 }
1058
mat.editors.after
1059 FUNCTION {format.editors.after}
1060 { editor empty$
1061   { "" }
1062   { bbl.edby "\ " * editor format.names.rev * }
1063   if$}
1064 }
1065
format.chief.after
1066 FUNCTION {format.chief.after}
1067 { editor empty$
1068   { "" }
1069   { bbl.chief "\ " * editor format.names.rev * }
1070   if$}
1071 }
1072
at.executor.after
1073 FUNCTION {format.executor.after}
1074 { author empty$
1075   { "" }
1076   { bbl.executor ": " * author format.names.rev * }
1077   if$}
1078 }
1079
at.compiler.after
1080 FUNCTION {format.compiler.after}
1081 { compiler empty$
1082   { "" }
1083   { bbl.cmplr "\ " * compiler format.names.rev * }
1084   if$}

```

```

1085 }
1086
format.title Important note Neither bibtex nor bibtex8 can handle unicoded text without troubles. In
particular, bibtex8 fails to change case of a string if it contains Cyrillic letter. Therefore we avoid
using change.case$ when option utf8 is in effect.
1087 FUNCTION {format.title}
1088 { title empty$
1089   { "" }
1090 ⟨!utf8⟩   { title "t" change.case$ }
1091 ⟨utf8⟩   { title }
1092   if$
1093 }
1094
format.month New in version 1.2d. This macro reeads month field and translate English names of months to
Russian if current language is Russian.
1095 FUNCTION {format.month}
1096 { month empty$
1097   { "" }
1098   { curlanguage "russian" =
1099     { month "Jan." =
1100       ⟨!utf8⟩   { "\CYRYA\cyrn\cyrv." }
1101       ⟨utf8⟩   { "ЯНВ." }
1102     { month "Feb." =
1103       ⟨!utf8⟩   { "\CYRF\cyre\cyrv\cyrr." }
1104       ⟨utf8⟩   { "ФЕВ." }
1105     { month "Mar." =
1106       ⟨!utf8⟩   { "\CYRM\cyra\cyrr\cyrt" }
1107       ⟨utf8⟩   { "Март" }
1108     { month "Apr." =
1109       ⟨!utf8⟩   { "\CYRA\cyrp\cyrr." }
1110       ⟨utf8⟩   { "Апр." }
1111     { month "May" =
1112       ⟨!utf8⟩   { "\CYRM\cyra\cyrishrt" }
1113       ⟨utf8⟩   { "Май" }
1114     { month "Jun." =
1115       ⟨!utf8⟩   { "\CYRI\cxyru\cyrn\crysftsn" }
1116       ⟨utf8⟩   { "Июнь" }
1117     { month "Jul." =
1118       ⟨!utf8⟩   { "\CYRI\cxyru\cyrl\crysftsn" }
1119       ⟨utf8⟩   { "Июль" }
1120     { month "Aug." =
1121       ⟨!utf8⟩   { "\CYRA\cyrv\cyrg\." }
1122       ⟨utf8⟩   { "Авг." }
1123     { month "Sep." =
1124       ⟨!utf8⟩   { "\CYRS\cyre\cyn\cyrt." }
1125       ⟨utf8⟩   { "Сент." }
1126     { month "Oct." =
1127       ⟨!utf8⟩   { "\CYRO\cyrk\cyrt." }
1128       ⟨utf8⟩   { "Окт." }

```

```

1129     { month "Nov." =
1130       { "\CYRN\cyro\crys\cyrb." }
1131     { "Нояб." }
1132     { month "Dec." =
1133       { "\CYRD\cyre\cyrk." }
1134     { "Дек." }
1135     { month }
1136       if$}if$}if$}if$}if$}if$}if$}if$}if$}if$}if$}
1137     { month }
1138     if$}
1139   if$
1140 }

format.date

1141 FUNCTION {format.date}
1142 { year empty$
1143   { month empty$
1144     { "" }
1145     { "there's a month but no year in " cite$ * warning$
1146       format.month
1147     }
1148     if$}
1149   }
1150   { month empty$
1151     'year
1152   {!modern}      { year ". \BibDash " format.month * * }%{ year ". " quote$ "--- " month * * * * }
1153   {modern}       { year ". \BibDash " format.month * * }
1154   if$}
1155   }
1156   if$}
1157   {natbib}  extra.label * % new in v.1.2
1158 }
1159

address.publisher
address.publisher.dat@60 {*!strict}
1161 FUNCTION {output.address.publisher}
1162 {
1163   address empty$
1164   'skip$
1165   { address output
1166     publisher empty$
1167     'skip$
1168     { new.column }
1169     if$}
1170   }
1171   if$}
1172   publisher output
1173 }
1174{/!strict}
1175 {*strict}

```

```

1176 %FUNCTION {output.address.publisher}
1177 %}
1178 % address empty$
1179 %
1180 %   bbl.nnoaddress
1181 %   publisher empty$
1182 %     { "~: " * bbl.nopublisher * }
1183 %
1184 %   if$
1185 %     enclose.square.brackets
1186 %
1187 %
1188 %   address output
1189 %   new.column
1190 %   publisher empty$
1191 %     { bbl.nopublisher enclose.square.brackets }
1192 %     { publisher }
1193 %   if$
1194 %
1195 %   if$
1196 %   output
1197 %}
1198 FUNCTION {output.address.publisher}
1199 {
1200   address empty$
1201   {
1202     bbl.nnoaddress
1203     publisher empty$
1204     { "~: " * bbl.nopublisher * enclose.square.brackets }
1205     { enclose.square.brackets "~: " * publisher * }
1206   if$
1207 }
1208 {
1209   address output
1210   new.column
1211   publisher empty$
1212     { bbl.nopublisher enclose.square.brackets }
1213     { publisher }
1214   if$
1215 }
1216   if$
1217   output
1218 }
1219
1220 </strict>
1221
dress.publisher.date Output.address.publisher.date is used in old styles. New styles use output.address.publisher.
1222 <*!(modern | strict)>
1223 FUNCTION {output.address.publisher.date}
1224 {

```

```

1225   output.address.publisher
1226   format.date output
1227 }
1228 </!(modern | strict)>
1229

output.bibitem
1230 <!*natbib>
1231 %%FUNCTION {output.bibitem}
1232 %%{ newline$
1233 %%  "\bibitem" write$
1234 %%  cite$ bracify write$
1235 %%  newline$
1236 %%  language empty$
1237 %%  { "english" 'curlanguage := }
1238 %%  { language  'curlanguage := }
1239 %%  if$
1240 %%  "\selectlanguageifdefined" curlanguage bracify * write$
1241 %%  newline$
1242 %%  ""
1243 %%  before.all 'output.state :=
1244 %%}
1245 FUNCTION {output.bibitem}
1246 { newline$
1247   "\bibitem" write$
1248   cite$ bracify write$
1249   newline$
1250   langid empty$
1251   { language empty$
1252     { "english" 'curlanguage := }
1253     { language  'curlanguage := }
1254     if$
1255   }
1256   { langid  'curlanguage := }
1257   if$
1258   "\selectlanguageifdefined" curlanguage bracify * write$
1259   newline$
1260   ""
1261   before.all 'output.state :=
1262 }
1263
1264 </!natbib>

format.full.names      In case of natbib option, we need make.full.names to compose output.bibitem, and the
author.full latter in its turn requires some more functions.
editor.full 1265 <!*natbib>
uthor.editor.full 1266 FUNCTION {format.full.names}
make.full.names 1267 f's :=
output.bibitem 1268 language empty$
1269   { "english" 'curlanguage := }
1270   { language  'curlanguage := }

```

```

1271 if$
1272 #1 'nameptr :=
1273 s num.names$ 'numnames :=
1274 numnames 'namesleft :=
1275 { namesleft #0 > }
1276 { s nameptr
1277 "{vv~}{ll}" format.name$ 't :=
1278 nameptr #1 >
1279 {
1280     namesleft #1 >
1281     { ", " * t * }
1282 {
1283     numnames #2 >
1284     curlanguage "english" =
1285     and
1286     { "," * }
1287     'skip$
1288     if$
1289     t "others" =
1290     %t "~others" =
1291     %or
1292     %{ " et~al." * }
1293     { " " bbl.etal ** }
1294     %{ " and " * t * }
1295     { " " bbl.and " " * * * t * }
1296     if$
1297     }
1298     if$
1299     }
1300     't
1301     if$
1302     nameptr #1 + 'nameptr :=
1303     namesleft #1 - 'namesleft :=
1304   }
1305   while$
1306 }
1307
1308 FUNCTION {author.full}
1309 { author empty$
1310   { "" }
1311   { author format.full.names }
1312   if$
1313 }
1314
1315 FUNCTION {editor.full}
1316 { editor empty$
1317   { "" }
1318   { editor format.full.names }
1319   if$
1320 }

```

```

1321
1322 FUNCTION {author.editor.full}
1323 { author empty$ 
1324   { editor empty$ 
1325     { "" }
1326     { editor format.full.names }
1327   if$ 
1328   }
1329   { author format.full.names }
1330 }if$ 
1331 }
1332
1333 FUNCTION {make.full.names}
1334 { type$ "book" =
1335   type$ "inbook" =
1336   or
1337   'author.editor.full
1338   { type$ "proceedings" =
1339     'editor.full
1340     'author.full
1341   if$ 
1342   }
1343 }if$ 
1344 }
1345
1346 % =====
1347 FUNCTION {output.bibitem}
1348 { newline$ 
1349   "\bibitem[" write$ 
1350   label write$ 
1351   ")\" make.full.names duplicate$ short.list =
1352   { pop$ }
1353   { * }
1354   if$ 
1355   "]{" * write$ 
1356   cite$ write$ 
1357   "}" write$ 
1358 %% language empty$ 
1359 %%   { "english" 'curlanguage := } 
1360 %%   {language 'curlanguage := } 
1361 %% if$ 
1362 langid empty$ 
1363   { language empty$ 
1364     { "english" 'curlanguage := } 
1365     { language 'curlanguage := } 
1366   if$ 
1367   }
1368   { langid 'curlanguage := } 
1369 }if$ 
1370 "\selectlanguage{ifdefined}" curlanguage bracify * write$ 

```

```

1371 newline$  

1372 ""  

1373 before.all 'output.state :=  

1374 }  

1375 % ======  

1376 %FUNCTION {output.bibitem}  

1377 %{ newline$  

1378 % "\bibitem" write$  

1379 %% author.key.label  

1380 %% year parenthesify *  

1381 %% ";" lbl:" label **  

1382 %% ";" mfn:" make.full.names **  

1383 % label  

1384 % make.full.names *  

1385 % bracketise write$  

1386 % cite$ bracify write$  

1387 % newline$  

1388 % language empty$  

1389 % { "english" 'curlanguage := }  

1390 % {language 'curlanguage := }  

1391 % if$  

1392 % "\selectlanguage{ifdefined}" curlanguage bracify * write$  

1393 % newline$  

1394 % "  

1395 % before.all 'output.state :=  

1396 %}  

1397 % ======  

1398 {/natbib}  

1399

n.dashify

1400 FUNCTION {n.dashify}
1401 { 't :=  

1402   ""  

1403   { t empty$ not }
1404   { t #1 #1 substring$ "-" =
1405     { t #1 #2 substring$ "--" = not
1406       { "--" *
1407         t #2 global.max$ substring$ 't :=
1408       }
1409       { { t #1 #1 substring$ "-" = }
1410         { "-" *
1411           t #2 global.max$ substring$ 't :=
1412         }
1413         while$  

1414       }
1415       if$  

1416     }
1417     { t #1 #1 substring$ *
1418       t #2 global.max$ substring$ 't :=
1419     }

```

```

1420      if$
1421    }
1422  while$*
1423 }
1424

word.in

1425 FUNCTION {word.in}
1426 { bbl.iin
1427   " " *
1428

format.btitle

1429 FUNCTION {format.btitle}
1430 { title
1431 }
1432

.or.space.connect

1433 FUNCTION {tie.or.space.connect}
1434 { duplicate$ text.length$ #3 <
1435   { "~" }
1436   { " " }
1437   if$
1438   swap$ * *
1439 }
1440

tie.connect Declare function to insert unbreakable space before last word in stack.
1441 FUNCTION {tie.connect}
1442 { "~"
1443   swap$ * *
1444 }
1445
1446

either.or.chec

1447 FUNCTION {either.or.check}
1448 { empty$
1449   'pop$
1450   { "can't use both " swap$ * " fields in " * cite$ * warning$ }
1451   if$
1452 }
1453

format.bvolume

1454 FUNCTION {format.bvolume}
1455 { volume empty$
1456   { "" }
1457   { bbl.vvol volume tie.connect
1458     series empty$
1459     'skip$
1460     { bbl.of space.word * series emphasize * }

```

```

1461     if$  

1462     "volume and number" number either.or.check  

1463   }  

1464   if$  

1465 }  

1466  

mat.number.series  

1467 FUNCTION {format.number.series}  

1468 { volume empty$  

1469   { number empty$  

1470     { series field.or.null }  

1471     { series empty$  

1472       { "there's a number but no series in " cite$ * warning$  

1473         bbl.nnr }  

1474       {  

1475         %new dblslash  

1476         new.sentence  

1477         series  

1478         bbl.nr  

1479         tie.or.space.connect}  

1480       if$  

1481       number tie.or.space.connect  

1482     }  

1483     if$  

1484   }  

1485   { "" }  

1486   if$  

1487 }  

1488  

is.num  

1489 FUNCTION {is.num}  

1490 { chr.to.int$  

1491   duplicate$ "0" chr.to.int$ < not  

1492   swap$ "9" chr.to.int$ > not and  

1493 }  

1494  

extract.num  

1495 FUNCTION {extract.num}  

1496 { duplicate$ 't :=  

1497   "" 's :=  

1498   { t empty$ not }  

1499   { t #1 #1 substring$  

1500     t #2 global.max$ substring$ 't :=  

1501     duplicate$ is.num  

1502     { s swap$ * 's := }  

1503     { pop$ "" 't := }  

1504   if$  

1505 }  

1506 while$
```

```

1507   s empty$  

1508     'skip$  

1509   { pop$ s }  

1510   if$  

1511 }  

1512  

1513 (*debug)  

eng.ord  

1514 FUNCTION {eng.ord}  

1515 { duplicate$ "1" swap$ *  

1516 # -2 #1 substring$ "1" =  

1517 { bbl.th * }  

1518 { duplicate$ #-1 #1 substring$  

1519   duplicate$ "1" =  

1520   { pop$ bbl.st * }  

1521   { duplicate$ "2" =  

1522   { pop$ bbl.nd * }  

1523   { "3" =  

1524   { bbl.rd * }  

1525   { bbl.th * }  

1526   if$  

1527   }  

1528   if$  

1529   }  

1530   if$  

1531   }  

1532   if$  

1533 }  

1534 (/debug)  

1535

```

convert.edition

```

1536 FUNCTION {convert.edition}  

1537 { edition  

1538 % edition extract.num "1" change.case$ 's :=  

1539 % s "first" = s "1" = or  

1540 % { bbl.first 't := }  

1541 % { s "second" = s "2" = or  

1542 %   { bbl.second 't := }  

1543 %   { s "third" = s "3" = or  

1544 %     { bbl.third 't := }  

1545 %     { s "fourth" = s "4" = or  

1546 %       { bbl.fourth 't := }  

1547 %       { s "fifth" = s "5" = or  

1548 %         { bbl.fifth 't := }  

1549 %         { s #1 #1 substring$ is.num  

1550 %           { s eng.ord 't := }  

1551 %           { edition 't := }  

1552 %           if$  

1553 %         }

```

```

1554 %           if$  

1555 %           }  

1556 %           if$  

1557 %           }  

1558 %           if$  

1559 %           }  

1560 %           if$  

1561 %           }  

1562 %   if$  

1563 %   t  

1564 }  

1565  

format.edition  

1566 FUNCTION {format.edition}  

1567 { edition empty$  

1568   { "" }  

1569   { output.state mid.sentence =  

1570   <!utf8>      { convert.edition "l" change.case$ " " * bbl.edition * }  

1571   <!utf8>      { convert.edition "t" change.case$ " " * bbl.edition * }  

1572   <utf8>        { convert.edition " " * bbl.edition * }  

1573   <utf8>        { convert.edition " " * bbl.edition * }  

1574   if$  

1575   }  

1576   if$  

1577 }  

1578  

1579 INTEGERS { multiresult }  

1580  

multi.page.check  

1581 FUNCTION {multi.page.check}  

1582 { 't :=  

1583   #0 'multiresult :=  

1584   { multiresult not  

1585     t empty$ not  

1586     and  

1587   }  

1588   { t #1 #1 substring$  

1589     duplicate$ "-" =  

1590     swap$ duplicate$ "," =  

1591     swap$ "+" =  

1592     or or  

1593     { #1 'multiresult := }  

1594     { t #2 global.max$ substring$ 't := }  

1595     if$  

1596   }  

1597   while$  

1598   multiresult  

1599 }
1600

```

```

format.pages
1601 %%FUNCTION {format.pages}
1602 %%{ pages empty$
1603 %%    { "" }
1604 %%    { pages multi.page.check
1605 %%        { bbl.ppages pages n.dashify tie.connect }
1606 %%        { bbl.ppage pages tie.connect }
1607 %%        if$
1608 %%    }
1609 %%    if$
1610 %%}
1611 FUNCTION {format.pages}
1612 { eid empty$
1613 {
1614     pages empty$
1615     { "" }
1616     { pages multi.page.check
1617         { bbl.ppages pages n.dashify tie.connect }
1618         { bbl.ppage pages tie.connect }
1619         if$
1620     }
1621     if$
1622 }
1623 { eid multi.page.check
1624     { bbl.ppages eid n.dashify tie.connect }
1625     { bbl.ppage eid tie.connect }
1626     if$
1627 }
1628 if$
1629 }
1630

format.pages.page
1631 %%FUNCTION {format.pages.page}
1632 %%{ pages empty$
1633 %%    { pagetotal empty$
1634 %%        { "" }
1635 %%        { pagetotal bbl.pages tie.connect }
1636 %%        if$}
1637 %%        { format.pages}
1638 %%        if$
1639 %%}
1640 FUNCTION {format.pages.page}
1641 { eid empty$
1642     { pages empty$
1643         { pagetotal empty$
1644             { "" }
1645             { pagetotal bbl.pages tie.connect }
1646             if$
1647         }
1648         { format.pages}

```

```

1649     if$
1650   }
1651 { format.pages }
1652 if$
1653 }
1654

mat.vol.num.pages
1655 FUNCTION {format.vol.num.pages}
1656 { volume field.or.null
1657   number empty$'
1658   'skip$'
1659   {
1660     ", no." number tie.or.space.connect *
1661     volume empty$'
1662     { "there's a number but no volume in " cite$ * warning$ }
1663     'skip$'
1664   if$'
1665   }
1666   if$'
1667   pages empty$'
1668   'skip$'
1669   { duplicate$ empty$'
1670     { pop$ format.pages }
1671     { ":" * pages n.dashify * }
1672   if$'
1673   }
1674   if$'
1675 }
1676

format.volume
1677 FUNCTION {format.volume}
1678 { volume empty$'
1679   { "" }
1680   { bbl.vvol volume tie.or.space.connect }
1681   if$'
1682 }
1683

format.number
1684 FUNCTION {format.number}
1685 { number empty$'
1686   { "" }
1687   { bbl.nr number tie.or.space.connect }
1688   if$'
1689 }
1690
1691 {*debug}

mat.chapter.pages
1692 FUNCTION {format.chapter.pages}

```

```

1693 { chapter empty$  

1694     'format.pages  

1695     { type empty$  

1696         { bbl.chapter }  

1697         { type "l" change.case$ }  

1698     if$  

1699     chapter tie.or.space.connect  

1700     pages empty$  

1701     'skip$  

1702     { ", " * format.pages * }  

1703     if$  

1704     }  

1705     if$  

1706 }  

1707 </debug>  

1708  

empty.misc.check  

1709 FUNCTION {empty.misc.check}  

1710 { author empty$ title empty$ howpublished empty$  

1711 month empty$ year empty$ note empty$  

1712 and and and and  

1713 key empty$ not and  

1714 { "all relevant fields are empty in " cite$ * warning$ }  

1715 'skip$  

1716 if$  

1717 }  

1718  

format.thesis.type  

1719 FUNCTION {format.thesis.type}  

1720 { type empty$  

1721     'skip$  

1722     { pop$  

1723 <!utf8>      type "t" change.case$  

1724 <utf8>      type  

1725     }  

1726     if$  

1727 }  

1728  

chrep.type.number  Function to format report type and number.  

1729 %FUNCTION {format.techrep.type.number}  

1730 %{ type empty$  

1731 %   { bbl.techreport }  

1732 %   'type  

1733 %   if$  

1734 %   number empty$  

1735 %%<!utf8>    { "t" change.case$ }  

1736 %%<utf8>    { "" }  

1737 %   { number tie.or.space.connect }  

1738 %   if$
```

```

1739 %}
1740
1741 FUNCTION {format.techreport.type}
1742 { type empty$
1743   { bbl.techreport }
1744   'type
1745   if$}
1746 }
1747

```

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

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

```

1748 {*!long}
1749 FUNCTION {author.before}
1750 {
1751   author empty$
1752   'skip$
1753   {author num.names$ #4 <
1754     {format.authors output
1755       new.sentence}
1756     'skip$
1757     if$}
1758   if$}
1759 }
1760 
```

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

```

1761 {*long}
1762 FUNCTION {author.before}
1763 {
1764   author empty$
1765   'skip$
1766   { format.authors output
1767     new.sentence
1768   }
1769   if$}
1770 }
1771 
```

1772

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

```

1773 %%<!*!long>
1774 %%FUNCTION {bookauthor.before}

```

```

1775 %%{
1776 %% bookauthor empty$ 
1777 %%   'skip$ 
1778 %%   {bookauthor num.names$ #4 < 
1779 %%     {format.bookauthors output 
1780 %%       new.sentence} 
1781 %%     'skip$ 
1782 %%     if$} 
1783 %%   if$ 
1784 %%} 
1785 %%<!/long> 
1786 %%<*long> 
1787 %%FUNCTION {bookauthor.before} 
1788 %%{ 
1789 %%   bookauthor empty$ 
1790 %%   'skip$ 
1791 %%   { format.bookauthors output 
1792 %%     new.sentence 
1793 %%   } 
1794 %%   if$ 
1795 %%} 
1796 %%</long> 
1797

```

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

```

1798 <!*modern> 
1799 FUNCTION {author.after} 
1800 { 
1801   author empty$ 
1802   'skip$ 
1803   {format.authors.after output 
1804     new.semicolumn } 
1805   if$ 
1806 } 
1807 <!/modern> 
1808 <*modern> 
1809 <!*long> 
1810 FUNCTION {author.after} 
1811 { 
1812   author empty$ 
1813   'skip$ 
1814   {author num.names$ #3 > 
1815     {format.authors.after output 
1816       new.semicolumn } 
1817     'skip$ 

```

```

1818     if$}
1819   if$
1820 }
1821 <!/long>
1822 <*long>
1823 FUNCTION {author.after} { }
1824 </long>
1825 </modern>
1826

bookauthor.after This function is used only in inbook entry. It always cuts list to 4 persons since format.bookauthors.after does that.

1827 FUNCTION {bookauthor.after}
1828 {
1829   bookauthor empty$'
1830   'skip$'
1831   {format.bookauthors.after output
1832     new.semicolumn }
1833   if$'
1834 }
1835

organization.after

1836 FUNCTION {editor.organization.after}
1837 {
1838   compiler empty$'
1839   {}
1840   { format.compiler.after  output
1841     new.semicolumn
1842   }
1843   if$'
1844   editor empty$'
1845   {}
1846   { format.editors.after  output
1847     new.semicolumn
1848   }
1849   if$'
1850   organization empty$'
1851   {}
1852   {organization output
1853     new.semicolumn
1854   }
1855   if$'
1856 }
1857

format.url

1858 FUNCTION {format.url}
1859 { url empty$'
1860   { "" }
1861   {

```

```

1862 !(modern | strict)      "\BibUrl{ " url * "}" *
1863 {modern | strict}      "URL: \BibUrl{" url * "}" *
1864     urldate empty$*
1865     { "" }
1866     { " (" bbl.urldate * ": " * urldate * ")" * }
1867     if$ *
1868   }
1869   if$*
1870 }
1871

format.annotate
1872 FUNCTION {format.annotate}
1873 { annote empty$*
1874   { "" }
1875 { after.sentence 'output.state :=*
1876   "\BibAnnote{" annote add.period$ * "}" *
1877 }
1878   if$*
1879 }
1880

format.isbn  Do we really need to provide electronic search for ISBN?
1881 FUNCTION {format.isbn}
1882 {
1883   isbn empty$*
1884   { "" }
1885   { "ISBN:~\href{http://isbndb.com/search-all.html?kw=" isbn *}
1886     "}{ " * isbn * "}" *
1887   }
1888   if$*
1889 }
1890

add.doi  The Digital Object Identifier (DOI) System is for identifying content objects in the digital
environment. DOI names are assigned to any entity for use on digital networks. They are used
to provide current information, including where they (or information about them) can be found on
the Internet. Information about a digital object may change over time, including where to find it,
but its DOI name will not change.
    Function add.doi embraces last string in stack into hyperlink that links it to specified doi
    identificator at http://dx.doi.org/ web-site.
1891 {*eprint}
1892 FUNCTION {add.doi}
1893 { duplicate$ empty$*
1894   'skip$*
1895   { doi empty$*
1896     'skip$*
1897     { "\href{http://dx.doi.org/" doi * "}{ " * swap$ * "}" * }
1898   if$*
1899   }
1900   if$*

```

```

1901 }
1902 </eprint>
If .bst style is compiled without eprint option, we just ignore doi field.
1903 <!*eprint>
1904 FUNCTION {add.doi} { }
1905 <!/eprint>
1906

add.medium New in version 2.
1907 <!*strict>
1908 FUNCTION {add.medium} { }
1909 <!/strict>
1910 <*strict>
1911 FUNCTION {add.medium}
1912 { duplicate$ empty$  

1913   'skip$  

1914   { medium empty$  

1915     { " " * bbl.medium enclose.square.brackets * }  

1916     { " " * medium enclose.square.brackets * }  

1917 %%     { bbl.medium enclose.square.brackets * }  

1918 %%     { medium enclose.square.brackets * }  

1919   if$  

1920 }
1921   if$  

1922 }
1923 </strict>
1924

```

2.5 Electronic Publishing Information

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

```

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

```

format.eprint The electronic identifier of an online publication. This is roughly comparable to a `doi` but specific to a certain archive, repository, service, or system. Also see `eprinttype` and `eprintclass`.

This function should use url. TO BE DONE YET.

```

1925 <!*eprint>
1926 %FUNCTION {format.eprint}
1927 %{ eprint empty$  

1928 %  { "" }  

1929 %  { eprintclass empty$}

```

```

1930 %      { " \href{http://arxiv.org/abs/" eprint * "}" * "{" * eprint * "}" * }
1931 %      { eprinttype empty$}
1932 %          { " \href{http://arxiv.org/abs/" eprint * "}" *
1933 %              "{" * eprintclass * "/" * eprint * "}" *
1934 %          }
1935 %          { " \href{http://arxiv.org/abs/" eprint * "}" *
1936 %              "{" * eprinttype * ":" * eprintclass * "/" * eprint * "}" *
1937 %          }
1938 %      if$}
1939 %  if$}
1940 %if$}
1941
1942 %FUNCTION {format.eprint}
1943 %{ eprint empty$}
1944 %  { ""}
1945 %  { eprinttype empty$}
1946 %      { ""}
1947 %      { eprinttype "~:" " *}
1948 %      if$}
1949 %      eprintclass empty$}
1950 %      { }
1951 %      { eprintclass * "/" *}
1952 %      if$}
1953 %      eprint *
1954 %      }
1955 %      if$}
1956 %      url empty$}
1957 %      { }
1958 %      { "\href{" url * "}{ " * swap$ * "}" *}
1959 %      if$}
1960 %}
1961
1962 FUNCTION {format.eprint}
1963 { eprint empty$}
1964 { ""}
1965 { eprinttype empty$}
1966 { ""}
1967 { eprinttype "~:" " *}
1968 if$}
1969 eprintclass empty$}
1970 { }
1971 { eprintclass * "/" *}
1972 if$}
1973 url empty$}
1974 { eprint *}
1975 { "\href{" * url * "}{ " * eprint * "}" *}
1976 if$}
1977 }
1978 if$}
1979 }

```

```

1980
1981 FUNCTION {output.eprint.url}
1982 {
1983   eprint empty$ 
1984     { format.url output }
1985     { format.eprint output }
1986   if$
1987 }
1988
1989 </eprint>
1990
1991 <!*eprint>
1992 FUNCTION {output.eprint.url}
1993 {
1994   format.url output
1995 }
1996 </!*eprint>
1997

```

2.6 Entry types

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

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

2.6.1 Regular Types

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, issuetitle, issuesubtitle, language, origlanguage, series, volume, number, eid, issue, month, pages, version, note, issn, addendum, pubstate, doi, eprint, eprintclass, eprinttype, url, urldate.

```

1998 FUNCTION {article}
1999 {
2000   output.bibitem
2001   author.before

```

```

2002 {natbib}  author format.key output
2003   format.title add.medium "title" output.check
2004   new.slash
2005   author.after
2006   new dblslash
2007   journal emphasize add.doi "journal" output.check % new in v.2
2008   new.block
2009   format.date "year" output.check
2010   new.block
2011   format.volume output
2012   format.number output
2013   new.block
2014   format.pages.page output
2015   new.block
2016   note output
2017   new.sentence
2018 %  format.url output
2019   output.eprint.url
2020   format.annote output
2021   fin.entry
2022 }
2023

```

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`.

```

2024 FUNCTION {book}
2025 {
2026   output.bibitem
2027   author.before
2028 {natbib}  author format.key output
2029   format.btitle add.doi add.medium "title" output.check
2030   new.slash
2031   author.after
2032   editor.organization.after
2033   new.sentence
2034   format.number.series output
2035   new.block
2036   format.edition output
2037   new.block
2038   output.address.publisher
2039   format.date "year" output.check
2040   new.block
2041   format.bvolume output
2042   new.block

```

```

2043   format.pages.page output
2044   new.block
2045 <eprint> format.isbn output
2046 <eprint> new.block
2047   note output
2048   new.sentence
2049 % format.url output
2050   output.eprint.url
2051   format.annotate output
2052   fin.entry
2053 }
2054

```

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.

```

2055 FUNCTION {booklet}
2056 {
2057   output.bibitem
2058   author.before
2059 <natbib> author format.key output
2060   format.title add.doi add.medium "title" output.check
2061   new.slash
2062   author.after
2063   editor.organization.after
2064   new.block
2065   howpublished output
2066   address output
2067   format.date "year" output.check
2068   new.block
2069   note output
2070   new.sentence
2071 % format.url output
2072   output.eprint.url
2073   format.annotate output
2074   fin.entry
2075 }
2076

```

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.

```
2077 FUNCTION {inbook}
```

```

2078 {
2079   output.bibitem
2080   author.before
2081 <natbib> author format.key output
2082   format.btitle add.doi add.medium "title" output.check
2083   new.slash
2084   author.after
2085   new dblslash
2086 % bookauthor.before
2087   booktitle "booktitle" output.check
2088   new.slash
2089   bookauthor.after
2090   editor.organization.after
2091   new.block
2092   format.edition output
2093   new.block
2094   format.number.series output
2095   new.sentence
2096   output.address.publisher
2097   format.date "year" output.check
2098   new.block
2099   format.bvolume output
2100  new.block
2101  format.pages.page output
2102  new.block
2103 <eprint> format.isbn output
2104 <eprint> new.block
2105  note output
2106  new.sentence
2107 % format.url output
2108  output.eprint.url
2109  format.annote output
2110  fin.entry
2111 }
2112

```

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.

```

2113 FUNCTION {incollection}
2114 {
2115   output.bibitem
2116   author.before
2117 <natbib> author format.key output
2118   new.sentence

```

```

2119 format.title add.doi add.medium "title" output.check
2120 new.slash
2121 author.after
2122 new.dbldslash
2123 booktitle "booktitle" output.check
2124 new.slash
2125 editor.organization.after
2126 new.block
2127 output.address.publisher
2128 format.date "year" output.check
2129 new.block
2130 format.bvolume output
2131 format.number.series output
2132 new.block
2133 format.pages.page output
2134 new.block
2135 note output
2136 new.sentence
2137 % format.url output
2138 output.eprint.url
2139 format.annote output
2140 fin.entry
2141 }
2142

```

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.

```

2143 FUNCTION {proceedings}
2144 {
2145   output.bibitem
2146 {natbib}  editor format.key output
2147   format.btitle add.doi add.medium "title" output.check
2148   new.slash
2149   editor.organization.after
2150   new.block
2151   format.bvolume output
2152   format.number.series output
2153 % address empty$
2154 %   { publisher output
2155 %     format.date "year" output.check
2156 %   }
2157 %   { address output.nonnull
2158 %     format.date "year" output.check
2159 %   new.sentence
2160 %   publisher output

```

```

2161 %      }
2162 %  if$ 
2163   output.address.publisher
2164   format.date "year" output.check
2165   new.block
2166   note output
2167   new.sentence
2168 %  format.url output
2169   output.eprint.url
2170   format.annotate output
2171   fin.entry
2172 }
2173

```

`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.

```

2174 FUNCTION {inproceedings}
2175 { output.bibitem
2176   author.before
2177   {natbib} author format.key output
2178   new.sentence
2179   format.title add.doi add.medium "title" output.check
2180   new.slash
2181   author.after
2182   new.dblslash
2183   booktitle "booktitle" output.check
2184   new.slash
2185   editor.organization.after
2186   new.block
2187   format.bvolume output
2188   format.number.series output
2189   new.block
2190 %  address empty$
2191 %    { publisher output
2192 %      format.date "year" output.check
2193 %    }
2194 %    { address outputnonnull
2195 %      new.column
2196 %      publisher output
2197 %      format.date "year" output.check
2198 %    }
2199 %  if$ 
2200   output.address.publisher
2201   format.date "year" output.check
2202   new.block

```

```

2203 format.pages.page output
2204 new.block
2205 note output
2206 new.sentence
2207 % format.url output
2208 output.eprint.url
2209 format.annote output
2210 fin.entry
2211 }
2212

```

manual Technical or other documentation, not necessarily in printed form. The author or editor is ommissible.

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

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

```

2213 FUNCTION {manual}
2214 { output.bibitem
2215   author empty$ 
2216   { organization empty$ 
2217     'skip$ 
2218     { organization output.nonnull
2219       address output
2220     }
2221     if$ 
2222   }
2223   { format.authors output.nonnull }
2224   if$ 
2225 {natbib} author format.key output
2226 new.block
2227 format.btitle add.doi add.medium "title" output.check
2228 author empty$ 
2229 { organization empty$ 
2230 {
2231   address new.block.checka
2232   address output
2233 }
2234 'skip$ 
2235 if$ 
2236 }
2237 {
2238   organization address new.block.checkb
2239   organization output
2240   address output
2241 }
2242 if$ 
2243 format.edition output
2244 format.date "year" output.check
2245 new.block
2246 note output

```

```
2247 new.sentence
2248 % format.url output
2249 output.eprint.url
2250 format.annote output
2251 fin.entry
2252 }
2253
```

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 ommissible.

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

```
2254 FUNCTION {misc}
2255 { output.bibitem
2256   format.authors output
2257 (natbib) author format.key output
2258   title howpublished new.sentence.checkb
2259   format.title add.medium output
2260   howpublished new.block.checka
2261   howpublished output
2262   new.block
2263   format.date "year" output.check
2264   new.block
2265   note output
2266   new.sentence
2267 % format.url output
2268   output.eprint.url
2269   format.annote output
2270   fin.entry
2271 }
2272
```

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

```
2273 FUNCTION {unpublished}
2274 { output.bibitem
2275   author.before
2276 (natbib) author format.key output
2277   format.btitle "title" output.check
2278   new.slash
2279   author.after
2280   editor.organization.after
2281   new.block
2282   format.date "year" output.check
2283   new.block
2284   note "note" output.check
```

```
2285 new.sentence
2286 % format.url output
2287 output.eprint.url
2288 format.annote output
2289 fin.entry
2290 }
2291
```

online An online resource. Author, editor, and year are ommissible. 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 @article 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.

```
2292 FUNCTION {online}
2293 { output.bibitem
2294   format.authors output
2295   (natbib) author format.key output
2296   title howpublished new.sentence.checkb
2297   format.title add.doi add.medium "title" output.check
2298 % howpublished new.block.checka
2299   howpublished new.dblslash.checka
2300   howpublished enclose.square.brackets output
2301   editor.organization.after
2302   new.sentence
2303   new.block
2304   output.address.publisher
2305   format.date output
2306   new.block
2307 % format.url output
2308   output.eprint.url
2309   new.sentence
2310   note output
2311   format.annote output
2312   fin.entry
2313 }
2314
```

internet New in version 2012.02.15.

```
www 2315 FUNCTION {internet}  {online}
```

```
webpage 2316 FUNCTION {www}      {online}
```

```
ielectronic 2317 FUNCTION {webpage}  {online}
```

```
2318 FUNCTION {electronic} {online}
```

thesis New in version 2012.02.02.

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

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

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

```

2319 <*!(modern | strict)>
2320 FUNCTION {thesis}
2321 { output.bibitem
2322   format.authors "author" output.check
2323 <natbib> author format.key output
2324   new.sentence
2325   format.btitle "title" output.check
2326   new.column
2327   bbl.phdthesis format.thesis.type outputnonnull
2328   new.slash
2329   school "school" output.check
2330   new.block
2331   output.address.publisher.date
2332   new.block
2333   format.pages.page output
2334   note output
2335   new.sentence
2336   format.url output
2337   format.annote output
2338   fin.entry
2339 }
2340 </!(modern | strict)>
2341 <*modern | strict>
2342 FUNCTION {thesis}
2343 { output.bibitem
2344   format.authors "author" output.check
2345 <natbib> author format.key output
2346   new.sentence
2347   format.btitle add.doi add.medium "title" output.check
2348   new.column
2349 % bbl.phdthesis format.thesis.type outputnonnull
2350   type "type" output.check
2351   new.column
2352   number output
2353   new.slash
2354   format.authors.after output
2355   new.semicolumn
2356   school "school" output.check
2357   new.block
2358   output.address.publisher
2359   format.date "year" output.check
2360   new.block
2361   format.pages.page output
2362   new.block
2363   note output
2364   new.sentence
2365 % format.url output
2366   output.eprint.url
2367   format.annote output
2368   fin.entry

```

```

2369 }
2370 ⟨/modern | strict)
2371

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.

2372 %FUNCTION {report}
2373 %{
2374 %   output.bibitem
2375 %   author.before
2376 %   new.sentence
2377 %   format.title add.doi add.medium "title" output.check
2378 %   new.column
2379 %%   format.techrep.type.number output.nonnull
2380 %   type "type" output.check
2381 %   new.slash
2382 %   author.after
2383 %   editor.organization.after
2384 %   new.block
2385 %   address output
2386 %   new.column
2387 %   institution "institution" output.check
2388 %   format.date "year" output.check
2389 %   new.block
2390 %   note output
2391 %   new.block          % v.2
2392 %   format.pages.page output % v.2
2393 %   new.sentence
2394 %%   format.url output
2395 %   output.eprint.url
2396 %   format.annotate output
2397 %   fin.entry
2398 %}
2399 FUNCTION {report}
2400 {
2401   output.bibitem
2402 %   author.before
2403 %   new.sentence
2404   format.title add.doi add.medium "title" output.check
2405 ⟨natbib⟩   title format.key output
2406   new.column
2407 %   format.techrep.type.number output.nonnull
2408 %   type "type" output.check
2409 %   format.report.type.number "type" output.check
2410   type "type" output.check

```

```

2411 new.column
2412 number output
2413 new.slash
2414 institution "institution" output.check
2415 new.semicolumn
2416 format.chief.after output % from editor field
2417 new.semicolumn
2418 format.executor.after output % from author field
2419 new.block
2420 address output
2421 new.column
2422 organization output
2423 format.date "year" output.check
2424 new.block % v.2
2425 format.pages.page output % v.2
2426 new.sentence % или new.block ?
2427 output.eprint.url
2428 new.block
2429 note output
2430 format.annote output
2431 fin.entry
2432 }
2433

```

2.6.2 Type Aliases

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

`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.

```

2434 <*!(modern | strict)>
2435 FUNCTION {phdthesis}
2436 { output.bibitem
2437   format.authors "author" output.check
2438   new.sentence
2439   format.btitle "title" output.check
2440   new.column
2441   bbl.phdthesis format.thesis.type output.nonnull
2442   new.slash
2443   school "school" output.check
2444   new.block
2445   output.address.publisher.date
2446   new.block
2447   format.pages.page output
2448   note output
2449   new.sentence
2450   format.url output
2451   format.annote output

```

```

2452   fin.entry
2453 }
2454 <!/modern | strict>
2455 <*modern | strict>
2456 FUNCTION {phdthesis}
2457 { output.bibitem
2458   format.authors "author" output.check
2459 <natbib> author format.key output
2460   new.sentence
2461   format.btitle add.doi add.medium "title" output.check
2462   new.column
2463   bbl.phdthesis format.thesis.type output.nonnull
2464   new.column
2465   number output
2466   new.slash
2467   format.authors.after output
2468   new.semicolumn
2469   school "school" output.check
2470   new.block
2471   output.address.publisher
2472   format.date "year" output.check
2473   new.block
2474   format.pages.page output
2475   new.block
2476   note output
2477   new.sentence
2478 % format.url output
2479   output.eprint.url
2480   format.annote output
2481   fin.entry
2482 }
2483 </modern | strict>
2484

```

`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.

```

2485 <*!(modern | strict)>
2486 FUNCTION {mastersthesis}
2487 { output.bibitem
2488   format.authors "author" output.check
2489 <natbib> author format.key output
2490   new.sentence
2491   format.btitle "title" output.check
2492   new.column
2493   bbl.mthesis format.thesis.type output.nonnull
2494   new.slash
2495   school "school" output.check
2496   new.block
2497   output.address.publisher.date
2498   new.block
2499   format.pages.page output

```

```

2500 note output
2501 new.sentence
2502 format.url output
2503 format.annote output
2504 fin.entry
2505 }
2506 <!/modern | strict>
2507 <*modern | strict>
2508 FUNCTION {masterthesis}
2509 { output.bibitem
2510   format.authors "author" output.check
2511 <natbib> author format.key output
2512   new.sentence
2513   format.btitle add.doi add.medium "title" output.check
2514   new.column
2515   bbl.mthesis format.thesis.type outputnonnull
2516   new.column
2517   number output
2518   new.slash
2519   format.authors.after output
2520   new.semicolumn
2521   school "school" output.check
2522   new.block
2523   output.address.publisher
2524   format.date "year" output.check
2525   new.block
2526   format.pages.page output
2527   new.block
2528   note output
2529   new.sentence
2530 % format.url output
2531   output.eprint.url
2532   format.annote output
2533   fin.entry
2534 }
2535 </modern | strict>
2536

```

dscithesis Similar to @thesis except that the type field is optional and defaults to the localized term ‘Doctor’s of sciences thesis’. You may still use the type field to override that.

```

2537 <*!(modern | strict)>
2538 FUNCTION {dscithesis}
2539 { output.bibitem
2540   format.authors "author" output.check
2541 <natbib> author format.key output
2542   new.sentence
2543   format.btitle "title" output.check
2544   new.column
2545   bbl.dscithesis format.thesis.type outputnonnull
2546   new.slash
2547   school "school" output.check

```

```

2548 new.block
2549 output.address.publisher.date
2550 new.block
2551 format.pages.page output
2552 note output
2553 new.sentence
2554 format.url output
2555 format.annotate output
2556 fin.entry
2557 }
2558 <!/modern | strict>
2559 {*modern | strict}
2560 FUNCTION {dscithesis}
2561 { output.bibitem
2562   format.authors "author" output.check
2563 (natbib) author format.key output
2564 new.sentence
2565 format.btitle add.doi add.medium "title" output.check
2566 new.column
2567 bbl.dscithesis format.thesis.type outputnonnull
2568 new.column
2569 number output
2570 new.slash
2571 format.authors.after output
2572 new.semicolumn
2573 school "school" output.check
2574 new.block
2575 output.address.publisher
2576 format.date "year" output.check
2577 new.block
2578 format.pages.page output
2579 new.block
2580 note output
2581 new.sentence
2582 % format.url output
2583 output.eprint.url
2584 format.annotate output
2585 fin.entry
2586 }
2587 </modern | strict>
2588

conference
2589 FUNCTION {conference} { inproceedings }
2590

techreport TechReport is similar to @report except that the type field is optional and defaults to the
localized term ‘technical report’. You may still use the type field to override that.
2591 %FUNCTION {techreport}
2592 %{
2593 % output.bibitem

```

```

2594 % author.before
2595 % new.sentence
2596 % format.title add.doi add.medium "title" output.check
2597 % new.column
2598 % format.techrep.type.number outputnonnull
2599 % new.slash
2600 % author.after
2601 % editor.organization.after
2602 % new.block
2603 % address output
2604 % new.column
2605 % institution "institution" output.check
2606 % format.date "year" output.check
2607 % new.block
2608 % note output
2609 % new.block          % v.2
2610 % format.pages.page output % v.2
2611 % new.sentence
2612 %% format.url output
2613 % output.eprint.url
2614 % format.annotate output
2615 % fin.entry
2616 %}
2617
2618 FUNCTION {techreport}
2619 {
2620   output.bibitem
2621 % author.before
2622 % new.sentence
2623   format.title add.doi add.medium "title" output.check
2624 <natbib> title format.key output
2625   new.column
2626 % format.techrep.type.number outputnonnull
2627 % type "type" output.check
2628 % format.report.type.number "type" output.check
2629 % type output
2630   format.techreport.type output
2631   new.column
2632   number output
2633   new.slash
2634   institution "institution" output.check
2635   new.semicolumn
2636   format.chief.after output % from editor field
2637   new.semicolumn
2638   format.executor.after output % from author field
2639   new.block
2640   address output
2641   new.column
2642   organization output
2643   format.date "year" output.check

```

```

2644 new.block          % v.2
2645 format.pages.page output % v.2
2646 new.sentence % или new.block ?
2647 output.eprint.url
2648 new.block
2649 note output
2650 format.annotate output
2651 fin.entry
2652 }
2653
2654

default.type

2655 FUNCTION {default.type} { misc }

2656

```

2.7 Month Abbreviations

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

```

2657 MACRO {jan} {"Jan."}
2658 MACRO {feb} {"Feb."}
2659 MACRO {mar} {"Mar."}
2660 MACRO {apr} {"Apr."}
2661 MACRO {may} {"May"}
2662 MACRO {jun} {"Jun."}
2663 MACRO {jul} {"Jul."}
2664 MACRO {aug} {"Aug."}
2665 MACRO {sep} {"Sep."}
2666 MACRO {oct} {"Oct."}
2667 MACRO {nov} {"Nov."}
2668 MACRO {dec} {"Dec."}

```

2.8 Journal Abbreviations

2.8.1 Physics and astronomy

Borrowed from `physjour.mbs` of package `custom-bib`.

```

2669 MACRO {aa} {"Astron. \& Astrophys."}
2670 MACRO {aasup} {"Astron. \& Astrophys. Suppl. Ser."}
2671 MACRO {aj} {"Astron. J."}
2672 MACRO {aph} {"Acta Phys."}
2673 MACRO {advp} {"Adv. Phys."}
2674 MACRO {ajp} {"Amer. J. Phys."}
2675 MACRO {ajm} {"Amer. J. Math."}
2676 MACRO {amsci} {"Amer. Sci."}
2677 MACRO {anofd} {"Ann. Fluid Dyn."}
2678 MACRO {am} {"Ann. Math."}
2679 MACRO {ap} {"Ann. Phys. (NY)"}

```

```

2680 MACRO {adp} {"Ann. Phys. (Leipzig)"}
2681 MACRO {ao} {"Appl. Opt."}
2682 MACRO {apl} {"Appl. Phys. Lett."}
2683 MACRO {app} {"Astroparticle Phys."}
2684 MACRO {apj} {"Astrophys. J."}
2685 MACRO {apjsup} {"Astrophys. J. Suppl."}
2686 MACRO {apss} {"Astrophys. Space Sci."}
2687 MACRO {araa} {"Ann. Rev. Astron. Astrophys."}
2688 MACRO {baas} {"Bull. Amer. Astron. Soc."}
2689 MACRO {baps} {"Bull. Amer. Phys. Soc."}
2690 MACRO {cmp} {"Comm. Math. Phys."}
2691 MACRO {cpam} {"Commun. Pure Appl. Math."}
2692 MACRO {cppcf} {"Comm. Plasma Phys. \& Controlled Fusion"}
2693 MACRO {cpc} {"Comp. Phys. Comm."}
2694 MACRO {cqg} {"Class. Quant. Grav."}
2695 MACRO {cra} {"C. R. Acad. Sci. A"}
2696 MACRO {fed} {"Fusion Eng. \& Design"}
2697 MACRO {ft} {"Fusion Tech."}
2698 MACRO {grg} {"Gen. Relativ. Gravit."}
2699 MACRO {ieeens} {"IEEE Trans. Nucl. Sci."}
2700 MACRO {ieeeeps} {"IEEE Trans. Plasma Sci."}
2701 MACRO {ijimw} {"Interntl. J. Infrared \& Millimeter Waves"}
2702 MACRO {ip} {"Infrared Phys."}
2703 MACRO {irp} {"Infrared Phys."}
2704 MACRO {jap} {"J. Appl. Phys."}
2705 MACRO {jasa} {"J. Acoust. Soc. America"}
2706 MACRO {jcp} {"J. Comp. Phys."}
2707 MACRO {jchp} {"J. Chem. Phys."}
2708 MACRO {jetp} {"Sov. Phys.--JETP"}
2709 MACRO {jfe} {"J. Fusion Energy"}
2710 MACRO {jfm} {"J. Fluid Mech."}
2711 MACRO {jmp} {"J. Math. Phys."}
2712 MACRO {jne} {"J. Nucl. Energy"}
2713 MACRO {jnec} {"J. Nucl. Energy, C: Plasma Phys., Accelerators, Thermonucl. Res."}
2714 MACRO {jnm} {"J. Nucl. Mat."}
2715 MACRO {jpc} {"J. Phys. Chem."}
2716 MACRO {jpp} {"J. Plasma Phys."}
2717 MACRO {jpsj} {"J. Phys. Soc. Japan"}
2718 MACRO {jsi} {"J. Sci. Instrum."}
2719 MACRO {jvst} {"J. Vac. Sci. \& Tech."}
2720 MACRO {nat} {"Nature"}
2721 MACRO {nature} {"Nature"}
2722 MACRO {nedf} {"Nucl. Eng. \& Design/Fusion"}
2723 MACRO {nf} {"Nucl. Fusion"}
2724 MACRO {nim} {"Nucl. Inst. \& Meth."}
2725 MACRO {nimpr} {"Nucl. Inst. \& Meth. in Phys. Res."}
2726 MACRO {np} {"Nucl. Phys."}
2727 MACRO {npb} {"Nucl. Phys. B"}
2728 MACRO {nt/f} {"Nucl. Tech./Fusion"}
2729 MACRO {npbpc} {"Nucl. Phys. B (Proc. Suppl.)"}

```

```

2730 MACRO {inc} {"Nuovo Cimento"}
2731 MACRO {nc} {"Nuovo Cimento"}
2732 MACRO {pf} {"Phys. Fluids"}
2733 MACRO {pfa} {"Phys. Fluids A: Fluid Dyn."}
2734 MACRO {pfb} {"Phys. Fluids B: Plasma Phys."}
2735 MACRO {pl} {"Phys. Lett."}
2736 MACRO {pla} {"Phys. Lett. A"}
2737 MACRO {plb} {"Phys. Lett. B"}
2738 MACRO {prep} {"Phys. Rep."}
2739 MACRO {pnas} {"Proc. Nat. Acad. Sci. USA"}
2740 MACRO {pp} {"Phys. Plasmas"}
2741 MACRO {pop} {"Phys. Plasmas"}
2742 MACRO {ppcf} {"Plasma Phys. \& Controlled Fusion"}
2743 MACRO {phitrsl} {"Philos. Trans. Roy. Soc. London"}
2744 MACRO {prl} {"Phys. Rev. Lett."}
2745 MACRO {pr} {"Phys. Rev."}
2746 MACRO {physrev} {"Phys. Rev."}
2747 MACRO {pra} {"Phys. Rev. A"}
2748 MACRO {prb} {"Phys. Rev. B"}
2749 MACRO {prc} {"Phys. Rev. C"}
2750 MACRO {prd} {"Phys. Rev. D"}
2751 MACRO {pre} {"Phys. Rev. E"}
2752 MACRO {ps} {"Phys. Scripta"}
2753 MACRO {procrls} {"Proc. Roy. Soc. London"}
2754 MACRO {rmp} {"Rev. Mod. Phys."}
2755 MACRO {rsi} {"Rev. Sci. Inst."}
2756 MACRO {science} {"Science"}
2757 MACRO {sciam} {"Sci. Am."}
2758 MACRO {sam} {"Stud. Appl. Math."}
2759 MACRO {st} {"Sky and Telesc."}

```

2.8.2 Supplementary Journal Names

Borrowed from suppjour.mbs of package custom-bib.

```

2760 MACRO {cjp} {"Czech. J. Phys."}
2761 MACRO {el} {"Europhys. Lett."}
2762 MACRO {en} {"Europhys. News"}
2763 MACRO {fujitsustj} {"FUJITSU Sci. Tech. J."}
2764 MACRO {ieeeed} {"IEEE Trans. Electron Devices"}
2765 MACRO {ieeeim} {"IEEE Trans. Instrum. Meas."}
2766 MACRO {ieeejqe} {"IEEE J. Quantum Electron."}
2767 MACRO {ieem} {"IEEE Trans. Magn."}
2768 MACRO {ieeeptl} {"IEEE Photonic Technol. Lett."}
2769 MACRO {ieeeuffc} {"IEEE Trans. Ultrason., Ferroelect., Freq. Cont."}
2770 MACRO {jem} {"J. Electron. Mater."}
2771 MACRO {jes} {"J. Electrochem. Soc."}
2772 MACRO {jetplet} {"JETP Lett."}
2773 MACRO {jjap} {"Japan. J. Appl. Phys."}
2774 MACRO {jpha} {"J. Phys. A: Math. Gen."}
2775 MACRO {jphb} {"J. Phys. B: At. Mol. Opt. Phys."}

```

```

2776 MACRO {jphbold} {"J. Phys. B: At. Mol. Phys."}
2777 MACRO {jphc} {"J. Phys.: Condens. Matter"}
2778 MACRO {jphcold} {"J. Phys. C: Solid State Phys."}
2779 MACRO {jphd} {"J. Phys. D: Appl. Phys."}
2780 MACRO {jvsta} {"J. Vac. Sci. Technol. A"}
2781 MACRO {jvstb} {"J. Vac. Sci. Technol. B"}
2782 MACRO {me} {"Microelectron. Eng."}
2783 MACRO {necrd} {"NEC Res.\& Develop."}
2784 MACRO {pa} {"Physica A"}
2785 MACRO {pb} {"Physica B"}
2786 MACRO {pc} {"Physica C"}
2787 MACRO {pd} {"Physica D"}
2788 MACRO {procieee} {"Proc. IEEE"}
2789 MACRO {procspie} {"Proc. SPIE"}
2790 MACRO {pssa} {"Phys. Stat. Sol. A"}
2791 MACRO {pssb} {"Phys. Stat. Sol. B"}
2792 MACRO {rpp} {"Rep. Progr. Phys."}
2793 MACRO {sm} {"Synthet. Metal"}
2794 MACRO {sost} {"Solid State Technol."}
2795 MACRO {ss} {"Surf. Sci."}
2796 MACRO {ssc} {"Solid State Commun."}
2797 MACRO {sst} {"Semicond. Sci. Technol."}
2798 MACRO {suplatt} {"Superlatt. Microstr."}
2799 MACRO {sust} {"Supercond. Sci. Technol."}
2800 MACRO {znat} {"Z. Naturforsch."}

```

2.8.3 Optics

Borrowed from photjour.mbs.

```

2801 MACRO {appopt} {"Appl. Opt."}
2802 MACRO {bell} {"Bell Syst. Tech. J."}
2803 MACRO {ell} {"Electron. Lett."}
2804 MACRO {jasp} {"J. Appl. Spectr."}
2805 MACRO {jqe} {"IEEE J. Quantum Electron."}
2806 MACRO {jlwt} {"J. Lightwave Technol."}
2807 MACRO {jmo} {"J. Mod. Opt."}
2808 MACRO {josa} {"J. Opt. Soc. America"}
2809 MACRO {josaa} {"J. Opt. Soc. Amer.~A"}
2810 MACRO {josab} {"J. Opt. Soc. Amer.~B"}
2811 MACRO {jdp} {"J. Phys. (Paris)"}
2812 MACRO {oc} {"Opt. Commun."}
2813 MACRO {ol} {"Opt. Lett."}
2814 MACRO {os} {"Opt. Spectrosc."}
2815 MACRO {phtl} {"IEEE Photon. Technol. Lett."}
2816 MACRO {pspie} {"Proc. Soc. Photo-Opt. Instrum. Eng."}
2817 MACRO {vr} {"Vision Res."}
2818 MACRO {zph} {"Z. f. Physik"}
2819 MACRO {zphb} {"Z. f. Physik~B"}
2820 MACRO {zphd} {"Z. f. Physik~D"}

```

2.8.4 Physics of condensed Matter

```
2821 MACRO {sse} {"Solid-State Electron."}  
2822 MACRO {pss} {"Phys. Sol. State"}  
2823 MACRO {nl} {"Nano Lett."}
```

2.8.5 Soviet and Russian journals

To be extended.

```
2824 MACRO {sjpp} {"Sov. J. Plasma Phys."}  
2825 MACRO {spd} {"Sov. Phys.--Doklady"}  
2826 MACRO {sptp} {"Sov. Phys.--Tech. Phys."}  
2827 MACRO {spu} {"Sov. Phys.--Uspekhi"}  
2828 ⟨!utf8⟩MACRO {ufn} {"\CYRU\CYRF\CYRN"}  
2829 ⟨utf8⟩MACRO {ufn} {"УФН"}  
2830 MACRO {pu} {"Phys.--Uspekhi"}  
2831 MACRO {sjot} {"Sov. J. Opt. Technol."}  
2832 MACRO {sjqe} {"Sov. J. Quantum Electron."}  
2833 MACRO {sleb} {"Sov. Phys.--Leb. Inst. Rep."}  
2834 MACRO {stph} {"Sov. Phys.--Techn. Phys."}  
2835 MACRO {stphl} {"Sov. Techn. Phys. Lett."}
```

2.9 Main cycle

```
2836  
2837 READ  
2838
```

2.10 Sorting

Next chunk of code governs sorting reference list by authors' names and titles.

```
2839 ⟨*sort | natbib⟩  
2840  
sortify  
2841 FUNCTION {sortify}  
2842 { purify$  
2843 ⟨!utf8⟩ "l" change.case$  
2844 }  
2845 ⟨/sort | natbib⟩  
2846  
sort.format.names  
2847 ⟨*sort⟩  
2848 %% ======  
2849 %% This version from old Gost package  
2850 %%<*!natbib>  
2851 FUNCTION {sort.format.names}  
2852 { 's :=  
2853   #1 'nameptr :=  
2854   ""  
2855   s num.names$ 'numnames :=
```

```

2856 numnames 'namesleft :=
2857   { namesleft #0 > }
2858   { nameptr #1 >
2859     { "    " * }
2860     'skip$
2861   if$
2862   s nameptr
2863   "%{vv{ } }{ll{ }}{ ff{ }}{ jj{ }}"
2864   format.name$ 't :=
2865   nameptr numnames = t "others" = and
2866   { "et al" * }
2867   %{ bbl.etal * }
2868   { t sortify * }
2869   if$
2870   nameptr #1 + 'nameptr :=
2871   namesleft #1 - 'namesleft :=
2872 }
2873 while$
2874 }
2875 %%</!natbib>
2876 %% This version from plainnat.bst
2877 %% It ignores second and subsequent authors but include year.
2878 %%<*natbib>
2879 %FUNCTION {sort.format.names}
2880 %{ 's :=
2881 % #1 'nameptr :=
2882 % ""
2883 % s num.names$ 'numnames :=
2884 % numnames 'namesleft :=
2885 % { namesleft #0 > }
2886 % {
2887 %   s nameptr "%{vv{ } }{ll{ }}{ ff{ }}{ jj{ }}" format.name$ 't :=
2888 %   nameptr #1 >
2889 %   {
2890 %     "    "
2891 %     namesleft #1 = t "others" = and
2892 %     { "zzzzz" * }
2893 %     { numnames #2 > nameptr #2 = and
2894 %       { "zz" * year field.or.null * "    " * }
2895 %       'skip$
2896 %     if$
2897 %       t sortify *
2898 %     }
2899 %   if$
2900 %   {
2901 %     t sortify *
2902 %   if$
2903 %   nameptr #1 + 'nameptr :=
2904 %   namesleft #1 - 'namesleft :=
2905 %

```

```

2906 % while$  

2907 %}  

2908 %%</natbib>  

2909 %% =====  

2910  

sort.format.title  

2911 FUNCTION {sort.format.title}  

2912 { 't :=  

2913   "A " #2  

2914   "An " #3  

2915   "The " #4 t chop.word % Removes "The " if any  

2916   chop.word           % Removes "An " if any  

2917   chop.word           % Removes "A " if any  

2918   sortify  

2919   #1 global.max$ substring$  

2920 }  

2921  

author.sort  

2922 %% =====  

2923 %% This version from old gost package.  

2924 %%  

2925 <!*natbib>  

2926 FUNCTION {author.sort}  

2927 { author empty$  

2928   { key empty$  

2929     { "to sort, need author or key in " cite$ * warning$  

2930       ""  

2931     }  

2932     { key sortify }  

2933   if$  

2934 }  

2935 {  

2936   author num.names$ #4 <  

2937   {author sort.format.names }  

2938   {title sort.format.title}  

2939   if$  

2940 }  

2941   if$  

2942 }  

2943 <!/natbib>  

2944 %% This version from plainnat.bst  

2945 <*natbib>  

2946 FUNCTION {author.sort}  

2947 { author empty$  

2948   { key empty$  

2949     { "to sort, need author or key in " cite$ * warning$  

2950       ""  

2951     }  

2952     { key sortify }  


```

```

2953     if$  

2954   }  

2955   { author sort.format.names }  

2956   if$  

2957 }  

2958 </natbib>  

2959 %% =====  

2960  

author.title.sort  

2961 {*!natbib | natbib}  

2962 FUNCTION {author.title.sort}  

2963 { author empty$  

2964   { title empty$  

2965     { key empty$  

2966       { "to sort, need author, title, or key in " cite$ * warning$  

2967         ""  

2968       }  

2969       { key sortify }  

2970       if$  

2971     }  

2972     { title sort.format.title }  

2973     if$  

2974   }  

2975   {  

2976     author num.names$ #4 <  

2977     {author sort.format.names }  

2978     {title sort.format.title}  

2979     if$  

2980   }  

2981   if$  

2982 }  

2983 <!/natbib | natbib>  

2984 {*natbib | natbib}  

2985 FUNCTION {author.editor.sort}  

2986 { author empty$  

2987   { editor empty$  

2988     { key empty$  

2989       { "to sort, need author, editor, or key in " cite$ * warning$  

2990         ""  

2991       }  

2992       { key sortify }  

2993       if$  

2994     }  

2995     { editor sort.format.names }  

2996     if$  

2997   }  

2998   { author sort.format.names }  

2999   if$  

3000 }  

3001

```

```

3002 FUNCTION {author.organization.sort}
3003 { author empty$ 
3004   { organization empty$ 
3005     { key empty$ 
3006       { "to sort, need author, organization, or key in " cite$ * warning$ 
3007         "" 
3008       } 
3009       { key sortify } 
3010     if$ 
3011   } 
3012   { "The " #4 organization chop.word sortify } 
3013   if$ 
3014 } 
3015   { author sort.format.names } 
3016   if$ 
3017 } 
3018
3019 FUNCTION {editor.organization.sort}
3020 { editor empty$ 
3021   { organization empty$ 
3022     { key empty$ 
3023       { "to sort, need editor, organization, or key in " cite$ * warning$ 
3024         "" 
3025       } 
3026       { key sortify } 
3027     if$ 
3028   } 
3029   { "The " #4 organization chop.word sortify } 
3030   if$ 
3031 } 
3032   { editor sort.format.names } 
3033   if$ 
3034 } 
3035 (/natbib | natbib) 
3036
3037

```

presort Function to compute `sort.key$`. What is the space string "" for?

```

3038 (*!natbib)
3039 FUNCTION {presort}#{1
3040 {
3041   author.title.sort
3042   " "
3043 *
3044   year field.or.null sortify
3045 *
3046   " "
3047 *
3048   title field.or.null
3049   sort.format.title
3050 *

```

```

3051 #1 entry.max$ substring$
3052 'sort.key$ :=
3053 }
3054 </!natbib>
3055 <*natbib>
3056 FUNCTION {presort}##2
3057 { calc.label
3058   label sortify
3059   %author.title.sort
3060   " "
3061   *
3062   % ===== plainnat.bst =====
3063 %  type$ "book" =
3064 %  type$ "inbook" =
3065 % or
3066 %    'author.editor.sort
3067 %    { type$ "proceedings" =
3068 %      'editor.organization.sort
3069 %      { type$ "manual" =
3070 %        'author.organization.sort
3071 %        'author.sort
3072 %        if$
3073 %      }
3074 %      if$
3075 %    }
3076 %    if$
3077 author.title.sort
3078 " "
3079 *
3080 year field.or.null sortify
3081 *
3082 " "
3083 *
3084 %cite$%
3085 title field.or.null sort.format.title
3086 *
3087 #1 entry.max$ substring$
3088 'sort.label :=
3089 sort.label *
3090 % =====
3091 #1 entry.max$ substring$
3092 'sort.key$ :=
3093 }
3094 </natbib>
3095 </sort>
3096
3097 <!*sort>
3098 <*natbib>
3099 INTEGERS { seq.num }
3100

```

```

3101 FUNCTION {init.seq}
3102 { #0 'seq.num :=}
3103
3104 EXECUTE {init.seq}
3105
3106 FUNCTION {int.to.fix}
3107 { "000000000" swap$ int.to.str$ *
3108   #-1 #10 substring$
3109 }
3110
3111 FUNCTION {presort}#3
3112 {
3113   calc.label           % computes label
3114   label sortify        % initiates sort.label
3115   " "
3116   *
3117   seq.num #1 + 'seq.num := % advance seq.num
3118   seq.num int.to.fix      % prepend seq.num with 0s
3119   'sort.label :=          % set sort.label to seq.num
3120   sort.label *            % append seq.num to label
3121   #1 entry.max$ substring$ % cut if too long
3122   'sort.key$ :=          % set sort.key$
3123 }
3124 </natbib>
3125 </!sort>
3126
3127 <*sort | natbib>
3128 ITERATE {presort}
3129
3130 SORT
3131
3132 </sort | natbib>
3133

```

2.11 Bibliography list

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

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

```

3134 <!natbib>STRINGS { longest.label }
3135 <natbib>STRINGS { longest.label last.label next.extra }
3136
3137 <!natbib>INTEGERS { number.label longest.label.width }
3138 <natbib>INTEGERS { number.label longest.label.width last.extra.num }
3139
ize.longest.label      Initialize those string.
3140 <!*natbib>
3141 FUNCTION {initialize.longest.label}

```

```

3142 { "" 'longest.label :=
3143   #1 'number.label :=
3144   #0 'longest.label.width :=
3145 }
3146 <!/natbib>
3147 <*natbib>
3148 FUNCTION {initialize.longest.label}
3149 { "" 'longest.label :=
3150   #0 int.to.chr$ 'last.label :=
3151   "" 'next.extra :=
3152   #0 'longest.label.width :=
3153   #0 'last.extra.num :=
3154   #0 'number.label :=
3155 }
3156 </natbib>
3157
3158 EXECUTE {initialize.longest.label}
3159

ize.longest.label      Iterate though the list of entries to compute label.

3160 <!*natbib>
3161 FUNCTION {forward.pass}
3162 { number.label int.to.str$ 'label :=
3163   number.label #1 + 'number.label :=
3164   label width$ longest.label.width >
3165     { label 'longest.label :=
3166       label width$ 'longest.label.width :=
3167     }
3168     'skip$
3169   if$
3170 }
3171 <!/natbib>
3172 <*natbib>
3173 FUNCTION {forward.pass}
3174 { last.label label =
3175   { last.extra.num #1 + 'last.extra.num :=
3176     last.extra.num int.to.chr$ 'extra.label :=
3177   }
3178   { "a" chr.to.int$ 'last.extra.num :=
3179     "" 'extra.label :=
3180     label 'last.label :=
3181   }
3182   if$
3183   number.label #1 + 'number.label :=
3184 }
3185 </natbib>
3186
3187 ITERATE {forward.pass}
3188

reverse.pass      Natbib styles require reverse iteration over all entries.

```

```

3189 {*natbib}
3190 FUNCTION {reverse.pass}
3191 { next.extra "b" =
3192     { "a" 'extra.label := }
3193     'skip$
3194 if$
3195 extra.label 'next.extra :=
3196 extra.label
3197 duplicate$ empty$ 
3198     'skip$
3199     { {\natexlabel{" swap$ * "}}" * }
3200 if$
3201 'extra.label :=
3202 label extra.label * 'label :=
3203 }
3204
3205 REVERSE {reverse.pass}
3206
3207 FUNCTION {bib.sort.order}
3208 { sort.label 'sort.key$ :=
3209 }
3210
3211 ITERATE {bib.sort.order}
3212
3213 SORT
3214 {/natbib}
3215

```

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

```

3216 FUNCTION {begin.bib}
3217 { "\begin{thebibliography}{" longest.label * "}" * write$ newline$
3218     "\def\selectlanguage{#1}{\relax" write$ newline$
3219     "\expandafter\ifx\csname date#1\endcsname\relax" write$ newline$
3220     "% "\else\language\csname 1@#1\endcsname\fi" write$ newline$
3221     "\else\selectlanguage{#1}\fi" write$ newline$
3222     "\providecommand*\{\href}[2]{\small #2}" write$ newline$
3223     "\providecommand*\{\url}[1]{\small #1}" write$ newline$
3224     "\providecommand*\{\BibUrl}[1]{\url{#1}}" write$ newline$
3225     "\providecommand{\BibAnnote}[1]{}" write$ newline$
3226     "\providecommand*\{\BibEmph}[1]{#1}" write$ newline$
3227 (*modern|!modern)
3228     "%\ProvideTextCommandDefault{\cyrdash}{---}" write$ newline$
3229     "%\DeclareUTFcharacter[\UTFencname]{x2014}{\cyrdash}
3230     "%\let\cyrdash\textemdash" write$ newline$
3231     "%\ProvideTextCommandDefault{\cyrdash}{\hbox to .8em{--\hss--}}" write$ newline$
3232     "%\ProvideTextCommandDefault{\cyrdash}{\textemdash}" write$ newline$
3233     "%\ProvideTextCommandDefault{\cyrdash}{\iflanguage{russian}{\hbox to .8em{--\hss--}}{\textemdash}}" write$ newline$
3234     "%\ProvideTextCommandDefault{\cyrdash}{\%}" write$ newline$
3235     "%\iflanguage{russian}{\hbox to .8em{--\hss--}}{\%}" write$ newline$
3236     "%\iflanguage{ukrainian}{\hbox to .8em{--\hss--}}{\textemdash}}" write$ newline$

```

```

3237   "\providecommand{\BibDash}{\ifdim\lastskip>0pt\unskip\nobreak\hskip.2em plus 0.1em\fi" write$ newline$ 
3238   "\cyrdash\hskip.2em plus 0.1em\ignorespaces}" write$ newline$ 
3239   "\renewcommand{\newblock}{\ignorespaces}" write$ newline$ 
3240 {/modern|!modern}
3241 {natbib}  "\providecommand{\natexlab}[1]{#1}" write$ newline$ 
3242   preamble$ empty$ 
3243   'skip$ 
3244   { preamble$ write$ newline$ } 
3245   if$ 
3246 } 
3247 
3248 
3249 EXECUTE {begin.bib}
3250 
3251 EXECUTE {init.state.consts}
3252 
3253 ITERATE {call.type$}
3254 

end.bib

3255 FUNCTION {end.bib}
3256 { newline$ 
3257 %   "\catcode`/=11"           write$ newline$ 
3258   "\end{thebibliography}" write$ newline$ 
3259 } 
3260 
3261 EXECUTE {end.bib}
3262 
3263 {/bst}

That's all, Folks!

```

Change History

v0.8		Upload to CTAN	1
General: \BibAnnote added	1	v1.2	
\BibEmph added	1	General: Entries eprint, eprintclass,	
\BibUrl added	1	eprinttype	1
Entry ANNOTE added	1	Fix bbl.ulrdate for ukrainian (Andrey	
v0.9		Shvajkoy)	1
General: Bug fix in INPROCEEDINGS . . .	1	Medium field	1
Bug fix in names and date formatting . .	1	Options modern, long, eprint	1
v1.0		Refactoring, Documentation	1
General: Bug fix (long annote)	1	Strict option	1
v1.1		Support for natbib package	1
General: Added German, French, Italian		Thesis entry, report entry	1
languages	1		
Entry ONLINE	1	v1.2a	
Gost705.dtx borrowed from Disser pkg . .	1	General: Default for \cyrdash added . . .	1

v1.2b		fix Gost2003: — replaced by \BibDash	1
General: numpages renamed to pagetotal	1	langid field added	1
v1.2c		v1.2d	
General: eid field added	1	General: \bbljan e.t.c. macros removed	1

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