

BIBTOOL Quick Reference Card

for BIBTOOL version 2.68 — see also <http://www.gerd.neugebauer.de/software/TeX/BibTool/>
©2019 Gerd Neugebauer (gene@gerd-neugebauer.de)

Command line options

- **rsc_command**
Perform resource command as if given in a file.
- **A type**
Determine key disambiguation. *type* in 0, a, A,
- **d**
Check double entries.
- **f key_format**
Generate keys according to *key_format*
- **F**
Enable key generation with free key format.
- **h**
Print short help and exit.
- **i input_file**
Mark a file to be processed later.
- **k**
Make keys with the short format.
- **K**
Make keys with the long format.
- **o output_file**
Send the output to *output_file*.
- **q**
Suppress warning messages.
- **r resource_file**
Read the resource file *resource_file*.
- **R**
Load the default resource file now.
- **s**
Sort the result.
- **S**
Sort the result in reverse order.
- **v**
Turn on verbose messages about the actions performed.
- **x aux_file**
Extract those entries mentioned in *aux_file*.
- **X regex**
Extract entries matching *regex*.

General

```
resource.search.path = {dir1:dir2...}  
resource {file}  
bibtex.search.path = {dir1:dir2...}  
bibtex.env.name = {ENV_NAME}  
env.separator = {c}  
dir.file.separator = {c}  
print {message}  
quiet = OnOff  
verbose = OnOff
```

Reading and Printing

```
input {bib_file}  
output.file = {file}  
parse.exit.on.error = OnOff  
pass.comments = OnOff  
new.entry.type {type}  
print.align = n  
print.align.key = n  
print.align.preamble = n  
print.align.comment = n  
print.braces = OnOff  
print.comma.at.end = OnOff  
print.deleted.entries = OnOff  
print.deleted.prefix = {prefix}  
print.indent = n  
print.line.length = n  
print.newline = n  
print.parentheses = OnOff  
print.terminal.comma = OnOff  
print.use.tab = OnOff  
print.wide.equal = OnOff  
suppress.initial.newline = OnOff  
new.field.type {new=old}  
symbol.type = type  
upper, lower, cased
```

Sorting

```
sort = OnOff  
sort.cased = OnOff  
sort.reverse = OnOff  
sort.format = {format}  
sort.order {...}  
sort.macros = OnOff
```

Searching (Extraction)

```
tex.define {macro[arg]=text}  
extract.file {file}  
select {field1...field_n "regex"}  
select {type1...type_n}  
select.by.string {field1...field_n "regex"}  
select.by.string.ignore {chars}  
select.case.sensitive = OnOff  
select.fields = {field1,field2,...}
```

Field Manipulation

```
add.field {field="value"}  
delete.field {field}  
keep.field {field}  
keep.field {field if field2="pattern"}  
rename.field {old=new}  
rename.field {old=new if field="pattern"}  
rewrite.rule {pattern}  
delete all matching fields  
rewrite.rule {pattern # replacement}  
rewrite all fields  
rewrite.rule {f1...f_n # pattern # replacement}  
rewrite some fields  
rewrite.case.sensitive = OnOff  
rewrite.limit = {n}
```

Checks

```
check.double = OnOff  
check.do.delete = OnOff  
check.rule {field # pattern # message}  
check.warning.rule {field # pattern # message}  
  
check.error.rule {field # pattern # message}  
check.case.sensitive = OnOff  
unique.field {field}
```

Strings

```
macro.file {file}  
print.all.strings = OnOff  
expand.macros = OnOff
```

Inheritance

```
crossref.map = OnOff  
clear.crossref.map {}  
crossref.limit = {n}  
expand.crossref = OnOff  
expand.xdata = OnOff
```

BibT_EX1.0

```
apply.alias = OnOff  
apply.include = OnOff  
apply.modify = OnOff  
key.make.alias = OnOff
```

Counting

```
count.all = OnOff  
count.used = OnOff
```

Key Generation

preserve.keys = *OnOff*
preserve.key.case = *OnOff*
key.format = {*format*}
 special values: short, long, short.need,
 long.need, empty
key.generation = *OnOff*
default.key = {*key*}
key.base = *base*
 values: upper, lower, digit
key.number.separator = {*s*}
key.expand.macros = *OnOff*
fmt.name.title = {*s*}
fmt.title.title = {*s*}
fmt.name.name = {*s*}
fmt.inter.name = {*s*}
fmt.name.pre = {*s*}
fmt.et.al = {*s*}
fmt.word.separator = {*s*}
new.format.type = {*n*="spec"}

Name Formatting Specification

Use *n* letters. Use *m* name parts. Insert *pre* before, *mid* between, and *post* after the words. Translate according to the *s* parameter ('+', '-', '*').

%sn.mf[*mid*][*pre*][*post*]
 format first names.
%sn.mv[*mid*][*pre*][*post*]
 format “von” part.
%sn.m[*mid*][*pre*][*post*]
 format last name.

%sn.mj[*mid*][*pre*][*post*]
 format “junior” part.

Format Specifications

Pseudo fields:

\$key
\$default.key
\$sortkey
\$source
\$type
@type
\$day
\$month
\$mon
\$year
\$hour
\$minute
\$second
\$user
\$hostname

Formatting Fields:

%±x.y n(*field*)
 format *y* characters of *x* last names.
%±x.y N(*field*)
 format *y* characters of *x* names.
%±x.y p(*field*)
 format *x* names according to the name format *y*.
%±x.y d(*field*)
 format at most *x* digits of the *y*th number.
%±x.y D(*field*)
 format *x* digits of the *y*th number without truncation.
%±x s(*field*)
 format *x* string characters.

%±x.y t(*field*)
 format *x* sentence words of length *y*.
%±x.y T(*field*)
 format *x* sentence words of length *y*.
 (Words ignored)
%±x.y w(*field*)
 format *x* words of length *y*.
%±x W(*field*)
 format *x* words of length *y*. (Words ignored)
%±x.y #n(*field*)
 test whether the number of names is between *x* and *y*.
%±x.y #N(*field*)
 test whether the number of names is between *x* and *y*.
%±x.y #p(*field*)
 test whether the number of names is between *x* and *y*.
%±x.y #s(*field*)
 test whether the number of characters is between *x* and *y*.
%±x.y #t(*field*)
 test whether the number of words is between *x* and *y*.
%±x.y #T(*field*)
 test whether the number of not ignored words is between *x* and *y*.
%±x.y #w(*field*)
 test whether the number of words is between *x* and *y*.
%±x.y #W(*field*)
 test whether the number of not ignored words is between *x* and *y*.

Libraries

check_y	Check the value of the year.
default	All default settings.
field	Redefine field names.
brace	Use braces as delimiters.
improve	Apply improvements.
iso2tex	Translate ISO 8859/1 characters.
iso_def	Define ISO 8859/1 characters for formatting.
keep_bibtex	Keep only the fields of standard BibTeX styles.
keep_biblatex	Keep only the fields of standard bibLaTeX styles.
month	Introduce strings for month names.
opt	Remove OPT in field names.
sort_fld	Specify sort order for fields.
tex_def	Define TeX macros for formatting.
biblatex	Define entry types and fields known to bibLaTeX.

Environment Variables

BIBTOOL	Search path for rsc files
BIBINPUTS	Search path for bib files
HOME	Home directory for .bibtoolrsc