

BIBTOOL Quick Reference Card

for BIBTOOL version 2.66 — see also <http://www.gerd.neugebauer.de/software/TeX/BibTool/>
©2016 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}  
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...fieldn "regex"}  
select {type1...typen }  
select.by.string {field1...fieldn "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...fn # 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.case.sensitive = OnOff
```

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
```

BibTeX1.0

```
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.ml[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:

% $\pm x.y$ n($field$)
 format y characters of x last names.
% $\pm x.y$ N($field$)
 format y characters of x names.
% $\pm x.y$ p($field$)
 format x names according to the name format y .
% $\pm x.y$ d($field$)
 format at most x digits of the y^{th} number.
% $\pm x.y$ D($field$)
 format x digits of the y^{th} number without truncation.
% $\pm x$ s($field$)
 format x string characters.

% $\pm x.y$ t($field$)
 format x sentence words of length y .
% $\pm x.y$ T($field$)
 format x sentence words of length y .
 (Words ignored)
% $\pm x.y$ w($field$)
 format x words of length y .
% $\pm x$ W($field$)
 format x words of length y . (Words ignored)
% $\pm x.y$ #n($field$)
 test whether the number of names is between x and y .
% $\pm x.y$ #N($field$)
 test whether the number of names is between x and y .
% $\pm x.y$ #p($field$)
 test whether the number of names is between x and y .
% $\pm x.y$ #s($field$)
 test whether the number of characters is between x and y .
% $\pm x.y$ #t($field$)
 test whether the number of words is between x and y .
% $\pm x.y$ #T($field$)
 test whether the number of not ignored words is between x and y .
% $\pm x.y$ #w($field$)
 test whether the number of words is between x and y .
% $\pm x.y$ #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 BIB_{TEX} styles.
keep.biblatex Keep only the fields of standard bib_{La}TEX 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 bib_{La}TEX.