

# BIBTOOL Quick Reference Card

for BIBTOOL version 2.67 — see also <http://www.gerd.neugebauer.de/software/TeX/BibTool/>  
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## 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...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
```

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## 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:

**%±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  $y$ .

**check.y**  
**default**  
**field**  
**brace**  
**improve**  
**iso2tex**  
**iso\_def**

**keep.bibtex**  
**keep.biblatex**

**month**  
**opt**  
**sort fld**  
**tex\_def**  
**biblatex**

## Libraries

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