

---

B

---

A I T<sub>E</sub>X

V

Bib

*Ger Neugeb*

**Abstract**

B<sub>I</sub> T<sub>E</sub>X  
in <sup>A</sup>T<sub>E</sub>X  
B<sub>I</sub> T<sub>E</sub>X  
allo  
–  
and  
selecting

B<sub>I</sub>B is B<sub>I</sub>B  
I T<sub>E</sub>X  
I T<sub>E</sub>X.  
B<sub>I</sub>B include

This BIB V

Cop © 2017

BIB is  
the GNU as  
v

BIB is

RANTY;

F GNU for  
details.

Y GNU along  
do COPYING.  
Mass

Gerd

Im

64521

Net: <http://www.gerd-neugebauer.de/>

E-Mail: [gene@gerd-neugebauer.de](mailto:gene@gerd-neugebauer.de)

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# 1.

The  
is

BIB

## 1.1.

Bi T<sub>EX</sub> Lam94, P  
in A<sub>TEX</sub> Lam94] I T<sub>EX</sub>  
has  
co I T<sub>EX</sub>.

- inserting
- editing
- using
- sorting
- extraction

Since I T<sub>EX</sub>  
to

Bi T<sub>EX</sub> is A<sub>TEX</sub>  
and  
of EX

bib is I T<sub>EX</sub> Bib<sub>AT<sub>EX</sub></sub>

bib is I T<sub>EX</sub>  
act

bibindex/biblo is  
Bi T<sub>EX</sub>  
so

bibso is I T<sub>EX</sub>

bib is I T<sub>EX</sub>  
file A<sub>TEX</sub> I T<sub>EX</sub>

lo are  
a I T<sub>EX</sub> A<sub>TEX</sub>  
Bi T<sub>EX</sub>

**bibto** is  
to  
tasks.

**bibview** is I T<sub>E</sub>X  
are A<sub>T</sub>E<sub>X</sub>

**JabRef** is I T<sub>E</sub>X  
platform

**BibCa** is  
a

**xbibtex/bibp** are  
running  
fields I T<sub>E</sub>X I T<sub>E</sub>X

**bibview** is  
in I T<sub>E</sub>X

**tkbibtex** is I T<sub>E</sub>X  
ing.

**bib** Editor I T<sub>E</sub>X

**qbibman** is BIB as  
library

**Ba** an I T<sub>E</sub>X

**Bi T<sub>E</sub>X-Mo** is I T<sub>E</sub>X-Mo  
Bi T<sub>E</sub>X  
for

**btOOL** is I T<sub>E</sub>X  
b

This  
I  
short GMS94,

Most  
are  
single

Still BIB tries  
to

## 1.2.

BIB has  
man  
options.  
resource  
determining

BIB .

When BIB has  
`bibtool`<sup>1</sup>.  
preter.

BIB from

```
bibtool
```

No BIB will  
B<sub>I</sub> T<sub>E</sub>X<sup>2</sup> The  
that  
the

Usually BIB in  
input  
name

```
bibtool file.bib
```

The  
`file.bib` is

No BIB w  
case BIB .  
B<sub>I</sub> T<sub>E</sub>X

### 1.2.1.

B<sub>I</sub> T<sub>E</sub>X -s.  
sorted  
BIB will

```
bibtool file1.bib
```

With -S the ASCII order.

```
bibtool file1.bib
```

---

<sup>1</sup>Ma

<sup>2</sup>W

If  $\LaTeX$  should

```
bibtool -sort.format="%N(author)"
```

This that line so are

### 1.2.2.

Once reference easy it  $\LaTeX$

One Alternativ authors suc desired

BIB has

F is  $\LaTeX$  <sup>3</sup> Supp sample.bib.

```
@ {
  a
  t
  j
  y
  v
  n
  p
  m
  n
}
```

First, of follo

```
bibtool sample.bib
```

After output sample1.bib:

---

<sup>3</sup>Shamelessly  $\LaTeX$  xamples.bib file.



```
@      {
  a
  t
  j
  y
  v
  n
  p
  m
  n
}
```

Y  
the  
to

```
bibttool  sample.bib
```

The aamport.la:gnats.  
first  
the  
Another  
follo <sup>4</sup>

```
bibttool  %n(author):%2d(year)
```

The Aamport:86.  
sample  
generation [A.10](#) is

### 1.2.3.

BIB can I T<sub>E</sub>X  
w I T<sub>E</sub>X  
braces  
the BIB can

```
bibttool - 'rewrite.rule={"^\"\\([~#]*\\)\"$"} out.bib
```

Since  
w  
bash,...)  
rewrite  
in

---

<sup>4</sup>Note  
quoted

The  
closed  
then

The  
the  $\wedge$ ).  
c  
only

Since  
giv  
pattern  $\backslash$ ).

Next  $\backslash($   $\backslash)$ .  
sub-string  
is

No  
purp  $[$   $]$ .  
sp  
Th  $\#)$

The  $*$ )  
of

W  
whic  
lik

a

Suc  
p  $.$ )  
w

a

But  
replacemen  $\backslash 1$  is  
but  
of  
Th  
sometimes

#### 1.2.4.

BIB can  
BIB analyzes `.aux` file

names I  $\text{\TeX}$  I  $\text{\TeX}$   
 Instead .aux file -x.

```
bibttool do -o do
```

The -o follo  
 This  
 written

### 1.2.5.

BIB can  
 can <sup>5</sup> As  
 con

```
bibttool tex -o some.bib
```

This tex in  
 option -o follo  
 of

Next  
 purp <sup>6</sup>

```
bibttool sele {"tex"} al -o some.bib
```

Note  
 page <sup>34</sup>).

Finally  
 tain sele  
 instruction:

```
bibttool sele {title $key } al -o some.bib
```

This tex in  
 b

After  
 short

```
bibttool sele {$key } al -o some.bib
```

---

<sup>5</sup>Those  
 ration BIB —whic

<sup>6</sup>Note  
 select

As  
This

```
bibttool      sele  { @b    } al      -o some.bib
```

A

**Note** Usually  
in  
follo

I T<sub>E</sub>X

```
bibttool      sele  { b    } -c al      -o some.bib
```

### 1.2.6.

Sometimes

I T<sub>E</sub>X

p  
incompatible  
tric

I T<sub>E</sub>X

ASCII as

I T<sub>E</sub>X.

BIB

to

```
bibttool      iso2tex -i iso.bib -o ascii.bib
```

### 1.2.7.

Bi T<sub>E</sub>X  
en  
those

This

```
so      { { %1.#s(crossref    } $k    }
so
so
```

The

%1.#s(crossref)

This  
dition

coun  
with

#s)  
, ∞] 1.).

crossref and

Th

%1.#s(crossref)a

If

a is

```
{%1.#s(crossref)a#z}
```

If #)  
 considered. z whic  
 in  
 Th a if  
 or  $z$  otherwise.

```
{%1.#s(crossref)a#z}$key
```

Finally \$key)

The  
 fields

### 1.2.8.

Sometimes

$\text{\texttt{I}}\ \text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}$

b

$\text{\texttt{I}}\ \text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}$

ha

suc

`delete.field as`

The

BIB

with

the

`-r.`

```
delete.field { libno }
```

If

`delete.field sev`

All

Another

```
bibttool ke _bibtex -o r
```

This

$k$  `_bibtex.rsc` whic

should

$\text{\texttt{I}}\ \text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}.$

And

$\text{\texttt{A}}\text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}$

command

```
bibttool ke _biblatex -o r
```

### 1.2.9. Bib fo $\text{\texttt{A}}\text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}$

BIB con

$\text{\texttt{I}}\ \text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}$

$\text{\texttt{A}}\text{\texttt{T}}_{\text{\texttt{E}}}\text{\texttt{X}}.$

definitions

`biblatex.rsc.`

command

```
bibttool biblatex -i in.bib -o out.bib
```

Details

[C.2.](#)

### 1.3. Bib with

BIB can  
data  
form  
information  
In BIB can  
mations  
easy  
from I T<sub>E</sub>X  
Curren BIB con  
can  
I BIB a  
this  
do  
A  
exp  
BibTcl BIB .

### 1.4. Bib ,

Usually BIB can  
BIB via  
It

<http://mirrors.ctan.org/biblio/bibtex/utils/bibttool>

A  
<http://pgp.mit.edu/>. [gene@gerd-neugebauer.de](mailto:gene@gerd-neugebauer.de).

BIB is [github](#)<sup>7</sup>.  
sources

<https://github.com/ge-ne/bibttool>

I BIB .  
and  
The

<http://www.gerd-neugebauer.de/software/TeX/BibTool/>

---

<sup>7</sup>It

In Bib and  
of

If Bib y  
m gene@gerd-neugebauer.de.  
in

- The Bib y

- Y

- The  
tion

- The  
for

- A *smal* Bi T<sub>E</sub>X

- The Bib making  
p

- A

I  
problems  
rep

On  
ab  
had

Oh, Bib .  
am

## 1.5. Bib

As Bib is  
F  
not

COPYING for

If  
the

- Pro  
material

- Pro Bib .  
files

- W  
ably  
GNU

GNU

or



## A.

This  
b            BIB        can  
y                        *instal*    if

### A.1.

Be  
command  
to  
lik  
F  
argumen                ’)                        \,  
\$, &, !,    #.  
Instead  
to  
the

### A.2.

BIB        can  
mands  
T    is                        BIB  
with                        bibtool (ma  
can        BIB        in  
a  
the  
can

**bibttool**

No   BIB        is                        BIB        reads  
This                        I TEX  
when BIB        is  
c

This argument BIB . -h as

```
bibttool
```

This line

The command -r.

```
bibttool r _file
```

In read command BIB tries v BIBTOOLRSC is resource All set .bibttoolrsc) v HOME)

The section [A.4](#)). .rsc is I T<sub>E</sub>X is BIBTOOL. is resource resource.sea .

```
resource.sea path
```

When T -R can

```
bibttool
```

No resource .bibto ) my\_rsc. The BIB uses my\_rsc:

```
bibttool -r my_rsc -i sample
```

If the -R b the

```
bibttool -R my_rsc -i sample
```

If `-R` argument  
 ev

```
bibtool -r my_rsc -R sample
```

Additionally  
 in  
 one  
 in BIB <sup>1</sup>.

As  
 cations:

```
bibtool -r my_rsc -i sample -R
```

```
bibtool -i sample -r my_rsc -R
```

No  
 a

```
name = {value}
```

*name* is I T<sub>E</sub>X  
*name* can

"

Resource  
 is =).  
 syn  
 resource  
 kind:

- A
- A  
 bidden
- A  
 taining  
 pairs.
- A  
 theses

{}).

---

<sup>1</sup>This

Y  
Resource  
v

- Bo on and off. on, t, true,  
and y are  
ignored. true and T are  
as off.
- Numeric
- String

Usually % and  
# act  
to  
No  
files

```
resource {additional/resource/file}
```

Th  
-r describ  
op

One p resource.  
is  
c  
can  
in

T p resource.  
see

```
p
```

Finally  
the -- The  
command

```
bibttool r _c
```

This  
terpart. p instruction  
command

```
bibttool print{hel _world}
```

## A.3.

BIB as  
used  
In BIB returns 0 if  
co 0.

### Summa

<i>Option</i>	
<i>-h</i>	Sho
<i>-R</i>	Immediately default
<i>-p {message}</i>	W <i>message</i> .
<i>-r file resource =</i>	Immediately resource <i>file</i> .
<i>resource.sea</i>	List
<i>-- rsc</i>	Ev <i>rsc</i> .

## A.4.

An  
w  
restriction  
a

```
bibttool input_file
```

The input can

```
input {input_file}
```

Input  
standard

Dep BIB there  
for I T<sub>E</sub>X BIB uses  
extensions  
additional  
nativ BIB searc

The  
extension .bib is  
giv

w bibtex.sea can  
sp

bibtex.sea {directo }

The  
as  
BIBINPUTS. I T<sub>E</sub>X  
path. bibtex.sea .  
c  
of

T  
b bibtex.env.name o  
en BIBINPUTS.

bibtex.env.name {ENVIRONMENT\_V }

The env.sepa is  
resource bibtex.sea and bibtex.env.name.

env.sepa {:}

The /).  
c dir.file.sepa can

dir.file.sepa {\}

**Note** that env.sepa and dir.file.sepa are  
to  
at env.sepa is ; and  
dir.file.sepa is \.

If I T<sub>E</sub>X  
describ  
probably E<sub>X</sub>  
I  
details.

## Summa

Option		
<code>bibtex.env.name={var}</code>	Use directories put)	<code>env</code> to I T <sub>E</sub> X
<code>bibtex.sea</code> <code>={p }</code>	Use (input)	<code>p</code> to I T <sub>E</sub> X
<code>dir.file.sepa</code> <code>={c}</code>	Use from	<code>c</code> to
<code>env.sepa</code> <code>={c}</code>	Use a	<code>c</code> to
<code>-i file</code> <code>input{file}</code>	Add I T <sub>E</sub> X files.	<code>file</code> to

## A.5.

By I T<sub>E</sub>X  
output `-o` as

```
bibtool output_file
```

The output.file can

```
output.file {output_file}
```

No

A standard

The status

W  
are  
pro  
but

W `-q`.  
toggles

```
bibtool
```

The on or off to quiet:

```
quiet
```

Status  
the -v.

bibtool

The verb :

verb

Another  
section [A.14](#) on

Summa

Option			
-o file	output.file {file}	Direct	file.
-q	quiet=on	Suppress	pressed.
-v	verb =on	Enable	of BIB .

A.6.

The  
prin  
syn I T<sub>E</sub>X I T<sub>E</sub>X

This  
BIB exits  
is off. pa .

Eac  
an  
the  
discarded  
c BIB stores I T<sub>E</sub>X  
pass.comments can

pass.comments

If  
file.

The I T<sub>E</sub>X  
fined BIB . new.entry  
as



new.entry	{Anthology}
-----------	-------------

This  
defined.  $A$  as  
en

new.entry	{ANTHOLOGY}
-----------	-------------

Eac

When  
stance

b p .  
acter  
database  
to

**a** The

**c** The

**i** The

**m** The

**n** The

**p** The

**\$** The

**S** The

**s** The p determines  
whether

The  
desirable

p	{pn}
---	------

The  
options.  
the

**p** This  
whic  
line.

**p** This  
en

**p** This  
and

**p** This  
commen

**p** This  
en

**p** This  
tries

**p** This  
tries <sup>2</sup> This

**p** This  
fields off then  
prin  
determines **p**

**p** This  
is  
v on.

**p** This  
This

**p** This  
after  
migh off. **I** **T**<sub>E</sub>**X**

**p** This **TAB c**  
inden  
If  
defaults on.

**p** This  
forced off whic  
no  
alignmen

**supp** This  
mal

The  
lo

**p**

---

<sup>2</sup>This

Next  
title.

<pre>@Unpublished{   author   title   note }</pre>	<pre>p and exceeds</pre>	<pre>p</pre>
--	--------------------------	--------------

The  
the new.field.t .  
the  
only

```
new.field.t { autho }
```

This  
a

```
new.field.t { OPT }
```

String I  $\text{\TeX}$ . Bib normalizes  
b  
other  
i.e.

The symb .  
lower, upper, cased.

```
symb
```

The  
Th  
ab  
t

The  
(see [A.10](#)).  
times  
not  
is  
Y

I  $\text{\TeX}$   
p .

p

If the  
enced p .  
recognize

Summa

Option			
new.entry	{ typ }	Define	typ .
new.field.t	{ typ }	Define	typ .
pa	=on	F	
		encoun	
pass.comments	=on	Do	
		the	
p	=on	Do	
		ing.	
p	=n	Align	n.
p	=n	Align	n.
p	=n	Align	= of n.
p	=n	Align	= of n.
p	=on	Put	
		line	
p	=n	Inden	n.
p	=n	Break	n.
p	=n	Num	
p	=on	Use TAB c	
		spaces.	
p	=off	F	
supp	=on	Suppress	
		records.	
symb	=typ	T	typ :
		lo	

A.7.

The reference -s and -S as

bibttool

bibttool

The ASCII order  
 lo ASCII order.  
 ac so and so resp

```
so {on}
so {on}
```

The so determines  
 so determines ASCII  
 order  
 otherwise.

Alternativ  
 ification  
 describ [A.10](#) in

The so .  
 tiv

```
so {%N(autho }
so {%N(edito }
```

Those

```
so {%N(autho }
```

This  
 giv  
 k

Let 8. so so instruc-  
 tions so giv  
 w

**Note** that ASCII order  
 the

Usually  
 v p can  
 cased  
 the so to  
 k

```
p {on}
so {on}
```

so	$\{\text{off}\}$
----	------------------

1.2.1 on 7.

## Summa

Option			
-S			Enable der.
-s	so		Enable
	so	=on	Use sorting.
	so	{ sp }	Add sp to sp
	so	=off	T
	so	=on	Rev

### A.8.

BIB	mak
regular	
regular	

regex-0.12/regex.texi

Note

Ordina	matc
--------	------

An  
letters

$$ab \text{ matc} \qquad ab .$$

The (.)

$a.c$  matc                       $ab$  but

 $abb$  .

**The** (\*)  
pression.

F  $ab^*c$  matc  $ac$  and  
follo  $ab$  .  
 $abbb$  .

**The** (+)  
pression,  
empt  
an

F  $ab+c$  matc  $abbb$  .  
follo  
not  $ac$ .

**The** (?)  
regular  
question

F  $ab?c$  matc  $ab$  .  
follo  
matc  $abb$  .

**The** (\\|)  
a

Note  
F  $ab \setminus def$  matc  $ab$  and  
 $def$ .

**P** (\\(\\))  
paren

Note  
F  $a \setminus (b \setminus d)c$  matc  $ab$  and  $adc$ .

**The** (\$)  
anc  
expression

F  $ab \$$  matc  $aaaab$  but  
matc  $ab$  .

**The** (^)  
to  
of  
con  
describ

F  
matc                     $\wedge ab$  matc                     $ab$     but  
                          $aaaab$  .

**The**                     $([])$   
list                     $\wedge$ )  
Otherwise

F                     $[ab$  matc                     $a, b,$   
c.                    d.

The                     $[\wedge ab$  matc  
a,

**The**                     $(\backslash)$   
sp  
is

If                    d then                     $d^{th}$   
matc

F                     $(an)\backslash 1as$  matc                     $ananas$  since  
first                     $an.$

If                    n then  
newline.

If                    t then  
single TAB c

## A.9.

### A.9.1.                    aux Files

BIB    includes                    I T<sub>E</sub>X  
accomplished                    aux file                    aux file  
b    A<sub>T</sub>E<sub>X</sub>.                    I T<sub>E</sub>X  
in                    aux file  
Since    I T<sub>E</sub>X                    aux file  
input

T                    aux file                    -x can  
the                    aux file.

```
bibttool    file.aux
```

Multiple  
with                    extract.file can

```
extract.file {file.aux}
```



A  
ically  
man  
Note  
tries.  
resolv  
One  
L<sup>A</sup>T<sub>E</sub>X  
same  
An

p to off.  
I T<sub>E</sub>X  
I T<sub>E</sub>X \nocite{\*} is  
BIB .  
1.2.4 on 10.

### A.9.2.

The  
whic  
can  
on.  
Th  
describ  
The  
for.  
has

select.b  
A.9.3.  
select.b is

```
select.b {"some" }
```

This  
The  
those  
can

some in

```
select.b {field1 . fieldn "string" }
```

T  
the  
with  
resources  
is  
expressions  
During  
certain  
The  
the

select.case.sensitive.  
A.9.3).  
BIB ignores  
select.b .

```
select.b { " {} [] }
```

As `select.case.sensitive` the `select.b` no is to In `select.b` can used form `select.b` :

```
select.b { field1 . fieldn "string" }
```

**Note** Cross-references `select.crossrefs` is

**A.9.3.**

Another `b` aux files. [A.8.](#) is The `select` allo general

```
select { field1 . fieldn "regula _exp" }
```

If expression `"."` is An selects `field` which has `r _expr` . The `$key, $type, @typ` can [53](#) for here.

Analogously `select.non.` b

```
select.non { field1 . fieldn "regula _exp" }
```

The `select.case.sensitive` can is

```
select.case.sensitive { off }
```

Note  
collected  
selection  
of  
used  
sensitiv

`select.case.sensitive` is

A

`-X` as

```
bibttool  r  _expr
```

The  
`select.fields.`  
fields  
spaces.

`$key.`

Th  
considered

`author` and `editor` are

```
select.fields  {"author  }
```

Without  
len

`select.fields` the

```
bibttool  sele  {$key  _expr  }
```

Note  
pressions  
to  
sensitiv

`select.case.sensitive` and `select.fields` are

Finally

`extract.regex` can

```
extract.regex  {regula _exp  }
```

This  
k  
v

**Note** Cross-references

`select.crossrefs` is

**A.9.4.**

When  
cross-references  
and `\TEX`

The  
`select.crossrefs.` `off b`  
ignored.

The  
referenced

```
select.crossrefs
```

**A.9.5.**

`\BI TEX`  
plished `crossref` field.

```
@ {
  b
  b
}
@ {
  a
  t
  c
}
```

Sometimes `crossref` and  
ing  
`b` `expand.crossref.` `off b`  
cross-references

The  
referenced

```
expand.crossref
```

Note means *not* in `BIB` acts  
the `crossref` field  
title

A `crossref` field.  
recursiv

The `crossref.limit.`

This  
than  
32.

```
crossref.limit
```

Bib<sub>La</sub>T<sub>E</sub>X [Leh14](#)]  
are `crossref.`  
exp  
an  
T BIB con  
field  
name  
name  
This `crossref.map.`  
sym  
This

```
crossref.map {source.t }
```

The  
issued

T  
t

```
crossref.map {{source.t _1 source.t _2} source.field  
{ta _1 ta _2 ta _3} ta }
```

In  
as  
If  
when  
newly  
Initially  
they  
previously

```
clea {}
```

Bib<sub>La</sub>T<sub>E</sub>X [Leh14](#)]  
sp @XData can  
b xdata whic  
comma @XData en

```
@ {
  b
  b
}
@ {
  p
  a
}
@ {
  a
  t
  x
}
```

BIB        supp  
to                      crossref fields BIB        can                      xdata fields.  
can    expand.xdata.                      off b  
It

expand.xdata

Summa

Option		
	<i>expand.crossref=on</i>	Include <b>crossref</b> field.
	<i>expand.xdata=on</i>	Include <b>xdata</b> field.
-x	<i>extract.file{file}</i> <i>extract.regex{expr}</i>	Extract <b>aux</b> file. Discouraged mand.
-X r	<i>select{sp }</i> <i>select.b {sp }</i> <i>select.b {sp }</i>	Select pression. Select string Select matc
	<i>select.b {chars}</i>	Define the
	<i>select.case.sensitive=off</i>	T
-c	<i>select.crossrefs=on</i>	T referenced
	<i>select.fields{fields}</i> <i>select.non{sp }</i>	Determine <b>-X</b> . Select ular

## A.10.

The  
b  
k  
a  
to  
option `-f` in

```
bibtool  format
```

This  
The k .

```
k {fo }
```

Some *format* ha  
of  
w I T<sub>E</sub>X

```
@
a
t
.
}
@ {
a
t
.
}
@ {
e
t
.
}
@ {
k
n
}
```

**sho** If  
editor  
only  
separator  
is

key is

```
fmt.name.title
default.k
```

k ).

T BIB to  
command --  
(remaining .

```
@
@ {
@ {
@ {
```

**long** The  
ting

If BIB is  
argumen -- w

```
@
@ {
@ {
@ {
```

**new.sho** This sho but  
is p and

If BIB is  
argumen -- w

```
@
@ {
@ {
@ {
```

**new.long** This long but  
obsoleted p and

If BIB is  
argumen -- w

```
@
@ {
@ {
@ {
```

**empt** The  
Bi T<sub>E</sub>X  
whic  
giv

If BIB is  
argumen -- w



```
@
@      {
@      {
@      {
```

In  
matting  
done

-F as

```
bibttool
```

Alternativ

k

can

```
k
```

Usually  
citations  
resource

off.

on then

p

is

they  
white-space

I T<sub>E</sub>X)

```
@      {
a
t
j
y
v
n
p
m
n
}
```

Ev

p

is on, BIB

still

can

p

to on (see [A.6](#)).

When

k

is

empt then

or

the

found

the

of

k

.

v

upp , lo ,

digit.

	generated	digit
	key	
	key	
	key	
	key	
	key	
As the Those sp		<a href="#">A.11</a> w
<b>p</b> This unc off.		
<b>p</b> This and case off.		
<b>default.k</b> The **key*.		
<b>k</b> The disam letters, upp , lo , digit.		
<b>k</b> The n *.		
<b>k</b> The macros off.		
<b>fmt.name.title</b> The names :: sho and long to		
<b>fmt.title.title</b> The default ::		
<b>fmt.name.name</b> The the I T <sub>E</sub> X and) ..		
<b>fmt.inter.name</b> The when -.		
<b>fmt.name.p</b> The formatting ..		
<b>fmt.et.al</b> The The .ea. and parts		

**fmt.w**                      The  
                               considered  
                               c

The                      sho    can  
[A.11](#) as

```
{
  {
    #
  }
  {
    #
    #
  }
}
#
{
  #
}
}
#
```

The [A.11.](#)

### A.10.1.

BIB        pro                                      @Alias definitions  
 whoic  
 curren    I T<sub>E</sub>X

The                                      k                      .  
 in

k

The                      off.

Summa

Option				
	$p$	$=off$	Do presen	
	$p$	$=on$	Do ing.	
	$default.k$	$=\{key\}$	Key	
	$fmt.et.al$	$=\{e\}$	String	
	$fmt.inter.name$	$=\{s\}$	String	
	$fmt.name.name$	$=\{s\}$	String	
	$fmt.name.p$	$=\{s\}$	String	
	$fmt.name.title$	$=\{s\}$	String	
	$fmt.title.title$	$=\{s\}$	String	
	$k$	$=\{b\}$	Kind k	
	$k$	$=off$	T	
$-f$	$k$	$\{fmt\}$	Set	$fmt.$
$-F$	$k$	$=on$	T	
	$k$	$=on$	T	@Alias en
			whic	
	$k$	$=\{s\}$	String	
			n	

A.11.

A.11.1.

The  
an

"

This I T<sub>E</sub>X.  
no  
that I T<sub>E</sub>X  
F

Key  
the\_name.of-the-@uthor-is:

No  
the  
are [3](#)

Author  
AuthorOrEditor  
A

## A.11.2.

The  
with % c  
Since  $\text{\texttt{I}}\text{\texttt{T}}\text{\texttt{E}}\text{\texttt{X}}$   
sev

`%N(author)`

The % c N—whic  
formatting  
example `author` according  
names N).

The  
`%sign` (*field*)

In *sign* is + or -. + means  
upp - means  
giv

*pr* and *p* are *letter*.  
*qualifier* is  
tionally #.  
list:

p F *p* .  
at *pr* names  
and .

*pr* defaults *p* defaults

See [A.11.10](#) for

*Example*

a

---

<sup>3</sup>W  
the

With

```
%p(author)
%1p(author)
%-2p(author)
%+1p(author)
```

n F

```
In          pr last
are          and      .    p    is          p
c

pr defaults    p    defaults

This          p format          p
v          n sp          len v
sp          A.11.10)
```

*Example*

a

With

```
%n(author)
%1n(author)
%-2n(author)
%+1n(author)
% .3n(author)
```

N F

```
In          pr last
are          and      .    p    is          p
c

pr defaults    p    defaults

This          p format          p
v          n sp          len v
sp          A.11.10)
```

*Example*

a

With

```
%N(author)
%1N(author)
%-2N(author)
%+1N(author)
% .3N(author)
```

d F

The  $p^{th}$  n  
righ  
58.

"june

$pr$  digits—coun  
formatted %2d results

$pr$  defaults  
it

$p$  defaults  
use %.2d as

If  
%0d can

P  
ha  
in

If  
a 0 is

If  
the  
n 0s

0 if

*Example*

p

With

%d(pages)  
%1d(pages)  
%4d(pages)  
%-4d(pages)  
%-5.2d(pages)  
%.3d(pages) *fails*  
%+.3d(pages)  
%0d(pages) *suc*

D F

This  
cated. d sp

*Example*

p

With

```
%D(pages)
%1D(pages)
%4D(pages)
%-4D(pages)
%-5.2D(pages)
%.3D(pages)      fails
%+.3D(pages)
%0D(pages)
```

s T

A *pr c*

*pr* defaults

*Example*

a

With

```
%s(author)
%8s(author)
%-8s(author)
%+8s(author)
%0s(author)    suc
```

T F

A *pr w*

artificial *p* is *pr* is  
are *p* letters

New

igno .

*pr* defaults *p* defaults

*Example*

t

With

```
%T(title)
%2T(title)
%2.1T(title)
%-T(title)
%+T(title)
```

The

T

ered



use `fmt.w` . `+`, `-`,  
`<`, `=`, `>`, `*`, `/` are

```
fmt.w "+-<=>*/"
```

Note `fmt.w` is  
`p`

`t F` `T no`  
 A `pr w` `pr is`  
 artificial `p` is `p` letters  
 are  
`pr` defaults `p` defaults

*Example*

```
t
```

With

```
%t(title)
%2t(title)
%2.1t(title)
%-t(title)
%+t(title)
```

`w F`  
 This `T except`

*Example*

```
t
```

With

```
%W(title)
%2W(title)
%2.1W(title)
%-W(title)
%+W(title)
```

`w F`  
 This `t except`

*Example*

```
t
```

With

```
%w(title)
%2w(title)
%2.1w(title)
%-w(title)
%+w(title)
```

#p Coun

If  $sign$  is  $pr$  or  $sign$  is  $+$  then  $p$  then  
less  $pr$  or  $p$  then  
it

The  $and$  ,  
authors,

If  $sign$  is  $-$  then  
sign  $-$  acts

If  $\infty$ .

If  $a$  is  $and$  then

```
%l.h#p succeeds  $l \leq a \leq h$ .
%-l.h#p succeeds  $l$  or  $a$  .
```

$pr$  and  $p$  b

*Example*

a

With

```
%2#p(author) suc
%4#p(author) fails
%-4#p(author) suc
%3.4#p(author) suc
%-3.4#p(author) fails
```

#n Is #p.

#N Is #p.

#s Coun

If  $sign$  is  $pr$  or  $sign$  is  $+$  then  $p$  then  
less  $pr$  or  $p$  then  
it

If  $sign$  is  $-$  then  
sign  $-$  acts

If  $\infty$ .

$pr$  and  $p$  b

If  $a$  is  
 $\%l.h\#s$  succeeds  $l \leq a \leq h.$   
 $\%-l.h\#s$  succeeds  $l$  or  $a$  .

*Example*

t

With

$\\#s(title)$  *suc*  
 $\%13.13\#s(title)$  *suc*  
 $\%10.16\#s(title)$  *suc*  
 $\%-10.16\#s(title)$  *fails*

**#w** Coun

w EXing  
 If *sign* is *sign* is + then  
 less *pr* or *p* then  
 it  
 If *sign* is - then  
 sign - acts  
 If  $\infty.$   
*pr* and *p* b

If  $a$  is  
 $\%l.h\#p$  succeeds  $l \leq a \leq h.$   
 $\%-l.h\#p$  succeeds  $l$  or  $a$  .

*Example*

t

With

$\\#w(title)$  *suc*  
 $\%3.3\#w(title)$  *suc*  
 $\%1.6\#w(title)$  *suc*  
 $\%-1.6\#w(title)$  *fails*

**#t** Is **#w.**

**#W** Coun

determined igno .  
 after EXing  
 If *sign* is *sign* is + then  
 less *pr* or *p* then  
 it

If  $sign$  is  $-$  then  
sign  $-$  acts

If  $\infty$ .

$pr$  and  $p$  b

If  $a$  is  
ignored  
 $\%l.h\#p$  succeeds  $l \leq a \leq h$ .  
 $\%-l.h\#p$  succeeds  $l$  or  $a$  .

Example

t

With

$\% \#W(title)$   $suc$   
 $\%2.2\#W(title)$   $suc$   
 $\%1.6\#W(title)$   $suc$   
 $\%-1.6\#W(title)$   $fails$

$\#T$  Is  $\#W$ .

If  
example,  $\%t(title)$ ,

t

In The-Whole-Title.

The  $(field)$  selects  
B1 T<sub>E</sub>X  
fails

But  
B1 T<sub>E</sub>X  $crossref$  is  
en  $crossref$  field  
the  
the  $crossref.limit$ .  $crossref$  field  
b

Usually I T<sub>E</sub>X  
Nev

T  $crossref.limit$  to  
this

**A.11.3.**

In  
listed

**\$key** This  
none

**\$sortkey** This  
formed.

**\$default.key** This default.k sim-  
ilarly fmt.name.title, fmt.title.title, fmt.name.name, fmt.inter.name,  
fmt.name.p , fmt.et.al can

**\$source** This  
If  
then

**\$type** This  
@ of I T<sub>E</sub>X article.

**@t** This  
(ignoring  
In %s(@Article) succeeds Article  
whereas %s(@Book) fails.

**\$day** This  
string  
the BIB run  
BIB .  
On  
In

**\$month** This  
string

**\$mon** This  
if

**\$year** This  
string

**\$hour** This  
string

**\$minute** This  
empt

**\$second** This  
empt

`$user` This `$USER` or  
 empty  
 con  
 a

`$hostname` This `$HOSTNAME`  
 or

#### A.11.4.

Conjunctions  
 simply  
 part

Supp I T<sub>E</sub>X editor and year.  
 conjunction

`%-3n(editor)`

If editor field "E.D." and year field "1992" then  
 the itor:92.

#### A.11.5.

Dep  
 This P -lik  
 as

`(field) then-p } else-p }`

If [A.11.2](#) succeeds *then-p* is  
 ev *else-p* is  
 the

Let  
 author if

`(author){%N(author)}{--no-author--}`

#### A.11.6.

Alternativ #).

`alternative1 # alternative2 # . # alternativen`

The  
the  
whole

An

The [A.11.5](#) can

`%N(author)`

If  
Otherwise

### A.11.7.

An `{}`)  
dence

Coming  
w  
follo

`{%N(author)`

The `#` in

Another  
a

`{%0s(@book)`

The `%0s` sp  
adding  
construct `@book` and `@proceedings`.  
pseudo  
form  
only

### A.11.8.

Certain  
ignore  
it  
of  
languages

The `igno` can  
w  
there

```
igno {w }
```

T  
compiled  
Afterw  
This  
op  
for

clea .

```
clea {}
```

### A.11.9. $\text{\LaTeX}$

When  $\text{\LaTeX}$   
macro  $\text{\LaTeX}$   
`tex.define` can  $\text{\LaTeX}$   $\text{\LaTeX}$   
simplest  $\text{\LaTeX}$ .

```
tex.define {macro=replacement }
```

This  
replacemen

In  
 $\text{\LaTeX}$ 's `\newcommand` the

```
tex.define {macro[a ]=replacement }
```

The  
writing `#n`,  $n$  is

F

Note  $=)$   
un

Usually  $\backslash$ ).  $\text{\textcolor{blue}{Kn}}$   $)).$   $\geq 128)$   
another  
p  
appropriate  $\text{\LaTeX}$

F  $\backslash\text{\TeX}$  to  
 $\text{\TeX}$ .

```
tex.define {\T }
```



Without                      The                      w                      book.  
 nition                      TeXbook.

Supp  
 The 4

```
tex.define {" }
```

With                      \protect macro  
 b

```
tex.define {\p }
```

Some                      BIB                      (see  
 app C).

### A.11.10.

Names                      BIB                      tries  
 them                      i T<sub>E</sub>X  
 comp

- The  
   case  
   F
- The  
   junior  
   F
- The  
   letters.  
   F  
   w
- The                      BIB                      kno  
   only  
   sen.,

Ev  
 More Lam94 P ].

BIB                      pro  
 construct                      %p format  
 (see

---

<sup>4</sup>T

BIB uses  
fined.  
name

<sup>5</sup> Initially

$\%*1 [fmt.inter.name].$

$\%*1 [fmt.inter.name] \%*1 f [fmt.inter.name].$

The

$\%N$  and  $\%n$ .

Th

name

BIB

issues

The

new.fo

can

new.fo {17=" %f%v%l" }

This

is

used

+ or - and

a

f, v, l, j.

argumen

Th

$\%sign$  .  $numb$   $[pr ] [mid] [p ]$

The f denotes

l denotes

v

denotes

j denotes

If  $sign$  is + then

$sign$  is - then

translated

is \* then

The  $len$  can

is

$len c$

$len$  is

is

$\infty$ .

sp

The

$numb$  after

tak

If  $[mid]$  is

none

If  $[pr ]$  is

empt

If  $[p ]$  is

empt

No

Cervantes

Saavedra, <sup>6</sup>.

the

<sup>5</sup>The

<sup>6</sup>This

W

`%1f[.] [] [.]%1v[.] [] [.]%3l[-]%1j`

This  
and

M.d.Cer-Saa.

Note  
k

### A.11.11.

T  
sp  
generated:

1. If `bibkey` is
2. If  
the
3. If `article)`  
journal,  
b  
separated
4. If `proceedings)`  
the  
should
5. If  
the
6. Otherwise  
used.  
at

The  
translated  
with

The  
string.

T

```
k      =      =
k      =      =
k      =      =
k      =      =
{
%
#
```

```
%
{
{
#
%
{
{
{
{
#
%
{
{
{
{
#
%
{
{
{
{
#
% $t
{
#
}
{
#
% $t
%
#
}
```

Since  
use  
they  
statemen  
the  
The  
struction  
of  
same  
The  
failure  
field

%0w(@book) are  
%0w could  
{%4d(year) alw  
#)

cond

Summa

Option				
clea	{}	F		
new.fo	{n=sp }	Define		
igno	{s}	Add		
tex.define{macr	}	Expand	EX	macr to text.
tex.define{macr	}	Expand	EX	

## A.12.

This

### A.12.1.

Certain

F

imp

ev

this

add.field is

```
add.field {field=value}
```

This

do

they

value can

“F

45.

[A.11.2](#) ab

Supp

time-stamp

time.

```
add.field {time=" June }
```

If

can

[53](#)).

```
add.field {time="%s($mon) }
```

If

this

```
add.field {time="%3s($mon) }
```

### A.12.2.

Certain

ation.

delete.field is

The

field:

```
delete.field {field}
```

Sev

The  
b  
k           allo  
In  
the

Sev k can  
not  
Note  
the  
Next

The pseudo-field is As y illustrated if.

The  
In \*)  
name \* is

The  
an  
The  
satisfies

The `k\_bibtex.rsc` and `k\_biblatex.rsc` contain the resources declarations for  $\text{Bi TeX}^{\text{ATeX}}$ .

### A.12.4.

Fields  
that

The `rename.field` can  
used

```
rename.field {old=new}
rename.field {old=new if field=pattern}
```

The `old` and `new` are  
(unquoted)  
output

In `field` is  
section [A.11.3](#)).  
against `p` . `p` is  
The `p` matc `field`.  
record

The `rewrite.case.sensitive`.

The  
written

Note  
w I `TeX`

Note  
in

The `rename.field`.

The

```
rename.field {auto }
```

The `title to booktitle` for  
t

```
rename.field {title }
```

**A.12.5.**

Field

I T<sub>E</sub>X

data

as

1.2.3.

The

rewrite.rule can

follo

```
rewrite.rule {field1 . fieldn # _text}
```

*field*<sub>1</sub> . *field*<sub>*n*</sub> is

whic

to

```
rewrite.rule {pattern _text}
```

Next

sign

*p* is

against

then

replacemen

*r* *\_text* is

The \'

\'*n*'

*n*<sup>th</sup> matc

of *p* . *n* is

inserted.<sup>7</sup> Th

Other

\\$ whic

\@ whic

If

delete.field is

text.

```
rewrite.rule {field }
rewrite.rule {pattern}
```

More

```
rewrite.rule { time {}$" }
```

<sup>7</sup>F

escaping



deletes

is

of

field

This

the

```
rewrite.rule { " ^{}$" }
```

Note

quote

```
rewrite.rule { " ^\" \"$" }
```

The

tion [A.11.2](#) on 45.

sp

follo

presen

```
rewrite.rule { time }
```

The .\* matc

the

Th

Usually

matc

resource rewrite.case.sensitive whic on b

only

```
rewrite.case.sensitive
```

A

T

n

negativ

of

limitation

Next

c □'

b

rewrite.limit con

rewrite.limit is

rewrite.limit indicates

- Empty  
which  
with

```
rewrite.rule { "~\"_*\$" }
rewrite.rule { "~{_*}\$" }
```

The ~'  
The  
regular

- Ranges  
(--).  
deleted

```
rewrite.rule { pages }
```

- Field  $\text{\texttt{\textbackslashprotect macro}}$ <sup>AT<sub>E</sub>X</sup>  
how  
delimiter

```
rewrite.rule {title }
```

### A.12.6.

Fields

a so .  
The

```
so { entry 1 # 2 # }
```

*entry* is book. *fields*  
names author. *field1* should *field2* etc.  
which  
order

Another \*.  
kind  
b

An  
a

Consider

so	{*	}
so	{misc	}

This  
misc  
The so fld.rsc con

Summa

Option		
	<i>add.field{field=value}</i>	Add
	<i>delete.field{field}</i>	Delete
	<i>rename.field{old=new}</i>	Rename
	<i>rename.field{old=new tern}</i>	Rename condition.
	<i>rewrite.case.sensitive=off</i>	T rewriting.
	<i>rewrite.rule{fields#p }</i>	Replace replacemen
	<i>so ={entry=f#. }</i>	Sp en

A.13.

Seman  
parsing.

A.13.1.

When  
doubled  
problems  
double  
The  
sort  
of  
comparing so (see [A.7](#)).  
The  
doubles.  
It  
double

as  
 presen I  $\text{\TeX}$  BIB will  
 remo pass.comments is off,  
 Sometimes  
 commen  
 resource p . off then  
 completely  
 The p whic  
 to  
 ending @ since  
 The check.double.delete can  
 F

```
check.double.delete
```

The check.double can  
 is

```
check.double
```

Chec -d:

```
bibttool
```

### A.13.2.

The (A.8)  
 (A.12.5)  
 resource check.rule is check.rule is rewrite.rule.

```
check.rule { field }
```

Again *field* and *message* is  
 sign

Eac  
 where *field* (if  
 the *p* matc  
 no *message* is

*message* is rewrite.rule,  
 com A.12.5 are

Usually  
 matc

resource check.case.sensitive which  
only

A.12.5.

check.case.sensitive

Consider  
from

```
check.rule { year    \{"{1[89][0-9][0-9][\"}]$" }
check.rule { year    \{"{[0-9][0-9][\"}]$" }
check.rule { year    \@ \$. }
```

The  
digits.  
at  
whole

<sup>8</sup> The

The  
message  
then

Otherwise  
empty  
the  
b

\@ is

\\$ b

## Summa

<i>Option</i>		
	<i>check.case.sensitive=off</i>	P
<i>-d</i>	<i>check.double=on</i>	Find sort
	<i>check.double.delete=on</i>	Delete them.
	<i>check.rule{field#p</i> }	If the

## A.14.

Strings I T<sub>E</sub>X  
bases.  
macros

macro.file is

---

<sup>8</sup>In  
But

macro.file {macro/file/name}

Note  
deserv  
preferably

The p indicates I T<sub>E</sub>X  
should

p

The symb (see 27).  
Strings BIB is  
b expand.macros as

expand.macros

The  
v  
As I T<sub>E</sub>X

```
@ {  
@ {  
  t  
  m  
}
```

If BIB is expand.macros turned  
—

```
@ {  
@ {  
  t  
  m  
}
```

The WGA has 1967. jan has  
not I T<sub>E</sub>X .bst).

When  
is  
quotes. p .  
then

p

The  
Scrib  
can  
It

p .

p

## Summa

<i>Option</i>			
<i>-m file</i>	<i>macro.file={file}</i>	W	<i>file.</i>
	<i>p =off</i>	Prin used	
	<i>expand.macros=on</i>	T	
	<i>p =off</i>	Switc macros	
	<i>p =on</i>	Enclose of	

## A.15.

Some  
items  
count.used are

BIB run.

I T<sub>E</sub>X  
count.all and

count.all

count.all indicates

I T<sub>E</sub>X

count.used

count.used forces  
in

I T<sub>E</sub>X

## Summa

<i>Option</i>		
<i>-#</i>	<i>count.all=on</i>	Prin
<i>-@</i>	<i>count.used=on</i>	Prin only

A.16. Bi T<sub>E</sub>X1.0

BIB      supp      i T<sub>E</sub>X1.0.

A.16.1.

The

```
@      {
```

Suc  
resource apply      can

A.16.2.

The

```
@      {
```

This      abc is      def.  
is      i T<sub>E</sub>X  
aliases      apply      can  
b

A.16.3.

The

```
@      {  
      a  
      }
```

This  
resource apply      can

Summa

Option		
apply	=on	Expand
apply	=on	Include
		ph      @include.
apply	=on	apply



## B.

### B.1. Bib

BIB has  
BIB should  
the I T<sub>E</sub>X BIB .  
B<sub>I</sub> T<sub>E</sub>X  
also BIB .

### B.2.

Problems

- The I T<sub>E</sub>X \cite macros  
tained
- The  
returned BIB ma  
a  
decision
- The E<sub>X</sub>  
enough
- In  
this
- Macro  
will

The BIB also T .  
more  
in



# C.

Sample  
Only

BIB in lib.

## C.1.

The

a	=
a	=
a	=
b	=
c	=
c	=
c	=
c	=
c	=
c	=
d	=
d	=
e	=
e	=
f	=
f	=
f	=
f	=
f	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
i	=
k	=
k	=
k	=
k	=
k	=
k	=

n	=
n	=
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p	=
p	=
p	=
p	=
p	=
r	=
r	=
q	=
s	=
s	=
s	=
s	=
s	=
s	=
s	=
s	=
s	=
s	=
v	=

C.2.  $\text{\texttt{AT}}_{\text{\texttt{E}}}\text{\texttt{X}}$

The `biblatex` command loads the  $\text{\texttt{AT}}_{\text{\texttt{E}}}\text{\texttt{X}}$  package.

Example  $\text{\texttt{AT}}_{\text{\texttt{E}}}\text{\texttt{X}}$  code:

n	{
n	{

[illegible]

Field

AT<sub>E</sub>X

%	n	n	n	n

[illegible]

[illegible]

```
n      {
n      {
n      {
n      {
n      {
n      {
n      {
n      {
n      {
n      {
n      {
n      {
```

Cross-reference  $\text{\texttt{AT\textsubscript{E}X}}$

```
c      {
      {
}
c      {
      m
}
c      {
      m
}
c      {
      m
}
c      {
      m
      {
}
c      {
      m
      {
}
c      {
      m
      m
}
c      {
      m
      m
}
c      {
      m
      m
}
c      {
      b
      b
}
c      {
      b
      b
}
c      {
      b
      b
```





C.4.

The  
Others

**iso2tex**  
define I T<sub>E</sub>X  
sequences.

**iso\_def**  
define E<sub>X</sub>

**so\_fld**  
defines I T<sub>E</sub>X

**check\_y**  
con  
n

**month**  
tries I T<sub>E</sub>X  
other

**opt**  
cop OPT prefixes

**b**  
tries

**k \_bibtex**  
defines I T<sub>E</sub>X  
b

**k \_biblatex**  
defines A<sub>T</sub>E<sub>X</sub>  
to

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