

```

ENTRY address author booktitle chapter doi edition editor howpublished institution isbn issn journal
key lastchecked month note number organization pages publisher school series title type url urn volume year
label extra.label sort.label short.list
FUNCTION ua.etal " u. a."
FUNCTION und " u. "
FUNCTION erness "Elektronische Ressource"
INTEGERS output.state before.all mid.sentence after.sentence after.block
INTEGERS colon.after period.dash
INTEGERS after.firstblock
INTEGERS zahl lang
INTEGERS nameptr namesleft numnames
INTEGERS ptr collation collrest
INTEGERS len
INTEGERS et.al.char.used
INTEGERS longest.label.width last.extra.num STRINGS longest.label last.sort.label next.extra
STRINGS h s t u v w
STRINGS fkt
FUNCTION init.state.consts 0 'before.all := 1 'mid.sentence := 2 'after.sentence := 3 'after.block := 4
'colon.after := 5 'period.dash := 6 'after.firstblock :=
FUNCTION output.nonnull 's := output.state after.block = add.periodwrite newline""write out-
put.state before.all = writeoutput.statecolon.after = " : " * write newline""write output.state period.dash
= ". - " * writenewline "" writeoutput.statemid.sentence = "," * write output.state after.sentence =
" " * writeoutput.stateafter.firstblock = add.period writenewline "" writewrite newline""write ifif ifif
ifif after.block 'output.state := ifs
FUNCTION output duplicateempty 'pop/output.nonnullif
FUNCTION output.check 't := duplicateempty pop"empty"t*"in" * cite * warning'output.nonnullif
FUNCTION new.block output.state before.all = 'skipafter.block'output.state :=if
FUNCTION not 0 1 if
FUNCTION and 'skippop 0 if
FUNCTION or pop1'skip if
FUNCTION output.bibitem newline"[ "write label write"]"write citewrite "" writenewline "" before.all
'output.state :=
FUNCTION fin.entry writenewline
FUNCTION set.period.dash output.state before.all = 'skipperiod.dash'output.state :=if
FUNCTION set.period.dash.check empty'skip 'set.period.dash if
FUNCTION set.colon.after output.state before.all = 'skipcolon.after'output.state :=if
FUNCTION new.sentence output.state before.all = 'skipafter.sentence'output.state :=if
FUNCTION part.of.sentence output.state before.all = 'skipmid.sentence'output.state :=if
FUNCTION new.sentence.checka empty'skip 'new.sentence if
FUNCTION field.or.null duplicateempty pop""'skip if
FUNCTION emphasize duplicateempty pop""""swap * "" * if
FUNCTION capitalize duplicateempty pop""""swap * "" * if
FUNCTION format.names 's := "" 'u := 1 'nameptr := s num.names'numnames := numnames'namesleft :=
namesleft0 > snameptr"ll" format.name 't := t capitalize 't := s nameptr " jj" format.name'w := snameptr", f f v v j j" fo
'u := u text.length'lang := 1'zahl := ""'v := zahl lang < uzahl1substring " " = v "" = u 1 zahl
1 - substring'v := ' skip ifvzahl2substring * "." * w * 'v := 'skipif zahl 1 + 'zahl := whilev"" =
u'v := 'skip iftv * fkt * t := nameptr1 > namesleft1 > ";" * t*numnames2 > ""*'skip ift"others" =
t"others(Hrsg.)" = orua.etal*";" * t*if iftif
nameptr 1 + 'nameptr := namesleft 1 - 'namesleft := while""'fkt :=
FUNCTION format.authors author empty""author format.namesif
FUNCTION format.editors editor emptyauthoreempty "empty author and editor in " cite*warning ""
'skipif author empty"(Hrsg.)"fkt := editor format.names"(Hrsg.)"fkt := ";" * editor format.names*if
if

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FUNCTION format.authors.organization type"misc" = organizationempty author empty""author format.names
author emptyorganizationauthor format.names"(Erfinder);" * organization * "(Anmelder)"*if iftype "man-
ual" = organization emptyauthoreempty "" author format.names ifauthoreempty organization capitalize
"(Hrsg.)" * author format.names "; " * organization capitalize * "(Hrsg.)" * ifif 'skipif if
FUNCTION format.editors.organization organization empty'skip type"misc" = organization*;" * organization"
if
FUNCTION format.tr.institution institution empty'skip institution capitalize if
FUNCTION format.ed.incoll editor empty""(Hrsg.)" 'fkt := editor format.namesformat.editors.organizationif
FUNCTION article.in.journal duplicateempty pop""authormissing title missingandemphasizeemphasize" In : " sw
* ifif
FUNCTION format.title title empty""titleif
FUNCTION format.number number empty""number""*if
FUNCTION format.digital.type type empty""type - 14substring "mail" = type 1 4 substring"Mail" =
OR""typeif if
FUNCTION n.dashify 't := "" t emptynott11substring "-" = t 1 2 substring"--" = not" --" * t2global.max
substring't := t11substring "-" = "-" * t 2 global.maxsubstring 't := whileif t 1 1 substring*t2global.max
substring't := if while
FUNCTION format.edition edition empty""editionif
FUNCTION format.date year duplicateempty "empty year in " cite*warning pop""'skip ifmonthempty
'skiptype "book" = type"inbook" = OR'skip month " " * swap*if if
FUNCTION format.edition.or.date edition emptyyeareempty and "" edition emptytypeempty NOT
type -1 4 substring"mail" = type14substring "Mail" = OR " gesendet: " "- " type * swap*format.date *
" Version : " format.date*if " Version : " format.date*if year empty" Version : " edition*" Version : " edition * ", "
ifif
FUNCTION format.doi doi empty""new.block"http : //dx.doi.org/"doi * ""*if
FUNCTION format.url urn missingdoimissing url empty""typeempty NOT type -1 4 substring"mail" =
type14substring "Mail" = OR type"incollection" = "" Absenderadresse : "url * ""*if "" url * "" *
if""url * ""*if ifformat.doiif "http://nbn-resolving.de/urn/resolver.pl?urn=" urn * "" * if
FUNCTION format.maillist.url url empty""typeempty "" type -1 4 substring"mail" = type14substring
"Mail" = OR "" url * "" * "" ifif if
FUNCTION format.version.url url emptydoiempty urn emptyandandtype "techreport" = format.edition
"" ifformat.edition.or.dateoutputformat.urlif
FUNCTION format.edition.or.version url emptydoiempty urn emptyandandformat.editionformat.edition.or.dateif
FUNCTION format.online.lastcheck lastchecked emptyurlempty doi emptyurnempty and and skip""outputif
url emptydoiempty urn emptyandand"there'salastcheckeddatebutnourl, urnordoin"cite * warningpart.of.sentencelastc
* output ifif
FUNCTION format.maillist.lastcheck type emptyNOTtype - 14substring "mail" = type 1 4 substring"Mail" =
ORformat.online.lastcheck'skip if'skip if
FUNCTION format.address.publisher.year publisher emptyadresempty year empty""yearif "there's
an address but no publisher in " cite*warning address ", " * format.date * ifadresempty year empty"neitheraddressnor
* warningpublisherpublisher", " * format.date*if year emptyaddress" : " * publisher*address" : " * publisher * ", " * f
ifif
FUNCTION format.address.publisher.year.alt publisher emptyadresempty year empty""urlempty
year "" ifif "there's an address but no publisher in " cite*warning address ", " * format.date * ifurlempty
address emptyyeareempty "neither address nor publication date in " cite*warning publisher publisher ",
" * format.date * ifyeareempty address " : " * publisher * address " : " * publisher * ", " * format.date
* ifif publisher ifif
FUNCTION format.howpublished url missingurnmissing doi missingANDANDhowpublishedempty
address emptytypeempty "" type -1 4 substring"mail" = "(gesendet : "new.sentenceformat.date * ")"*""if
ifformat.date*address", " * format.date*if address emptyhowpublished", " * format.date*address" : " * howpublished
ifhowpublishedempty "" howpublished ifif

```

FUNCTION format.lastchecked.or.type lastchecked emptyurlempty doi emptyurnempty and and type
 emptyskip type set.period.dash.check type output iftypeempty skiptype - 14substring "mail" = type 1 4
 substring" Mail" = ORskip type set.period.dash.check type output ifif ifurlempty doi emptyurnempty
 and and "there's a lastchecked date but no url, urn or doi in" cite*warning type empty"there's a URL and a lastchecked date"
 * warningtypeset.period.dash.checktypeoutputpart.of.sentencelastchecked" Abruf : "swap * output ifif if
 FUNCTION format.btitle title emphasize
 FUNCTION tie.or.space.connect duplicatetext.length 3 ; " " " " ifswap * *
 FUNCTION format.btitle.vol number emptyseriesempty volume emptytitleemphasizetitleemphasize".Bd." * volume
 volume emptytitleemphasizeseriesemphasize".Bd." * volumetie.or.space.connect" : " * " * title * " * if iftitleemphasize
 FUNCTION format.series.number.din volume emptynumberempty series empty""("series * ") * if
 series empty""("number * ") * "there's a number but no series in" cite * warning""("series * number tie.or.space.connect") *
 ifseriesempty "" type"proceedings" = type "inproceedings" = OR number empty""("series * ") * ""("series * number tie.or.space.connect") *
 "" ifif if
 FUNCTION format.tr.series.or.number number emptyseriesempty "" ""("series * ") * ifseriesempty
 ""("number * ") * ""("series * number tie.or.space.connect") * ifif
 FUNCTION format.misc.series series empty""("series * ") * if
 FUNCTION format.doi.urn urn emptydoiempty "" "DOI" doi n.dashify tie.or.space.connect
 if"URN"urnn.dashifytie.or.space.connectif
 FUNCTION format.isbn.issn isbn emptyissnempty "" "ISSN" issn n.dashify tie.or.space.connect
 if"ISBN"isbnn.dashifytie.or.space.connectif
 FUNCTION format.pages pages empty""urlempty "S." pages n.dashify tie.or.space.connect pages
 ifif
 FUNCTION format.pages.book pages empty""noteempty isbn empty AND""pagesn.dashifytie.or.space.connect" S"
 "" pages n.dashify tie.or.space.connect " S" * ifif
 FUNCTION format.pages.bkcollation pages empty""""pagesn.dashifytie.or.space.connectif
 FUNCTION format.bkpages.collat.check 's := 1 'ptr := s text.length/collat := collat1 = format.pages.bookcollat
 't := t "S." = format.pages.bkcollat 0 'collrest := ptr 1 + 'ptr := collrest 1 - 'collrest := 1 collrest =
 format.pages.book skipif ifwhile if
 FUNCTION format.vol.year.num.pages volume field.or.null year empty"there's no year in" cite * warning""("year * ") *
 month empty/skip ", " month * * ifnumberempty 'skip", Nr."number * * if pages empty/skip duplicateempty"
 pop""titlemissing ", " pages format.bkpages.collat.check * * ", " format.pages * * ifif if
 FUNCTION format.chapter.inbook duplicateempty pop"emptychapterin"cite * warningtypeempty
 "Kapitel " swaptie.or.space.connecttype"" * swap * ifif
 FUNCTION format.chapter.pages chapter empty'format.pagetypeempty "Kapitel " url emptytype" Kapitel" if
 ifchaptertie.or.space.connectpagesempty 'skip", " * format.pages * if if
 FUNCTION format.in.ed.booktitle.din booktitle empty""editoreempty volume empty"In : "booktitleemphasize*" In
 volume empty"In : "format.ed.incoll * " : " * booktitleemphasize*" In : "format.ed.incoll * " : " * booktitleemphasize * "
 ifif
 FUNCTION format.thesis.tr.type type empty/skip poypeif
 FUNCTION format.article.crossref key emptyjournalempty "need key or journal for" cite*"tocrossref" *
 crossref * warning "" "In: " journal * "" * if"In : "key * if "" * crossref * "" * ", " * format.pages *
 FUNCTION format.crossref.editor editor 1 "ll" format.name"(Hrsg.)" * editornum.names duplicate2 >
 pop ua.etal * 2 ; 'skipeditor2"ffvullj"format.name "others" = ua.etal " ; " * editor 2 "vv ll"
 format.name*(Hrsg.)" * if ifif
 FUNCTION format.inbk.vol.title volume empty"In : "titleempty " In: Bd." volume tie.or.space.connect
 " von " * "In: Bd." volume tie.or.space.connect : " * title emphasize * " (" * year * ") in " * ifif
 FUNCTION format.book.crossref type"inbook" = format.inbk.vol.titlevolumeempty "empty volume
 in " cite*"scrossrefof" * crossref * warning " " . - Bd." volume tie.or.space.connect " von " * ifif editor
 emptyeditorfield.or.nullauthorfield.or.null = orkeyempty series empty"neededitor, key, orseriesfor"cite
 * " to crossref " * crossref * warning"" * "" * if key * if "" * crossref * "" *
 FUNCTION format.incoll.inproc.crossref editor emptyeditorfield.or.nullauthorfield.or.null = orkeyempty
 booktitle empty"neededitor, key, orbooktitlefor"cite * " to crossref " * crossref * warning"" In : "booktitle * "" * if
 "In: " if In : "if "" * crossref * "" *

FUNCTION article output.bibitem format.authors "author" output.check set.colon.after format.title
 "title" output.check crossref missing *journalarticle.in.journaloutput.nonnullnew.sentenceformat.vol.year.num.pagesou*
 format.online.lastcheck doi set.period.dash.check urn set.period.dash.check format.doi.urn output issn set.period.dash.che
 format.isbn.issn output note set.period.dash.check note output fin.entry

FUNCTION book output.bibitem author empty *format.editors"authorandeditor" output.checkformat.authorsform*
 set.colon.after crossref missing *format.btitle.vol" title" output.checkformat.btitle" title" output.checkif* format.edition
 output format.address.publisher.year "publisher" output.check new.sentence crossref missing *format.series.number.dinow*
 pages empty *skip* pages set.period.dash.check pages format.bkpages.collat.check output if *format.doioutputformat.urlou*

FUNCTION booklet output.bibitem author empty *format.editors"authorandeditor" output.checkformat.authorsfo*
 set.colon.after format.btitle "title" output.check format.edition.or.version output format.url output format.online.lastcheck
 format.howpublished output series new.sentence.checka format.series.number.din output pages empty *skip*
 pages set.period.dash.check pages format.bkpages.collat.check output if *typeset.period.dash.checkformat.digital.typeoutp*

FUNCTION inbook output.bibitem chapter format.chapter.inbook output.nonnull crossref missing *authoreempty*
 format.editors "In : " *swap* * "author and editor" output.check format.authors "In : " *swap* * output.nonnull
 if *authoreempty* editor empty *ANDbefore.all'output.state :=set.colon.afterif* format.btitle.vol "title" out
 put.check format.edition output format.address.publisher.year "publisher" output.check new.sentence for
 mat.series.number.din output isbn set.period.dash.check format.isbn.issn output format.book.crossref out
 put.nonnull if *part.of.sentenceformat.pagesoutputnoteset.period.dash.checknoteoutputfin.entry*

FUNCTION incollection output.bibitem format.authors "author" output.check set.colon.after format.title
 "title" output.check format.version.url output type empty *NOTtype - 14substring* "mail" = type 1 4 substring "Mail" =
OR' skip format.online.lastcheck if *format.online.lastcheckif* crossref missing *format.in.ed.booktitle.din"booktitle" outp*
 part.of.sentence format.chapter.pages "pages" output.check note set.period.dash.check note output fin.entry

FUNCTION inproceedings output.bibitem format.authors "author" output.check set.colon.after for
 mat.title "title" output.check crossref missing *format.in.ed.booktitle.din"booktitle" output.checkaddressempty*
 organization new.sentence.checka organization output part.of.sentence format.address.publisher.year output
 format.address.publisher.year "publisher" output.check if *new.senceseriesempty* 'skip *format.series.number.dinoutpu*
 isbn set.period.dash.check issn set.period.dash.check format.isbn.issn output format.incoll.inproc.crossref
 output.nonnull if *part.of.sentenceformat.pages"pages" output.checknoteset.period.dash.checknoteoutputfin.entry*

FUNCTION conference inproceedings

FUNCTION manual output.bibitem author empty *organizationempty* title empty 'skip format.btitle
 "title" output.check if 'skip if *format.authors.organizationoutput.nonnullset.colon.afterformat.btitle" title" outp*
 organization empty *ANDaddress"address" output.checkpart.of.sentenceorganizationempty* address "ad
 dress" output.check part.of.sentence address ": " * organization * output part.of.sentence if *if* format.date
 output number empty 'skip "(" number * ")" " * output if *pagesempty* skip *pagesset.period.dash.checkpagesformat.bkpag*
 format.doi output format.url output format.online.lastcheck note set.period.dash.check note output fin.entry

FUNCTION mastersthesis output.bibitem format.authors "author" output.check set.colon.after for
 mat.btitle "title" output.check address output part.of.sentence school "school" output.check part.of.sentence
 "Diplomarbeit" format.thesis.tr.type output.nonnull part.of.sentence format.date "year" output.check for
 mat.url output format.online.lastcheck doi set.period.dash.check urn set.period.dash.check format.doi.urn
 output pages empty *skip* pages set.period.dash.check pages format.bkpages.collat.check output if *noteset.period.dash.che*

FUNCTION phdthesis output.bibitem format.authors "author" output.check set.colon.after format.btitle
 "title" output.check address output part.of.sentence school "school" output.check part.of.sentence "Diss."
 format.thesis.tr.type output.nonnull part.of.sentence format.date "year" output.check format.url output for
 mat.online.lastcheck doi set.period.dash.check urn set.period.dash.check format.doi.urn output pages empty *skip*
 pages set.period.dash.check pages format.bkpages.collat.check output if *noteset.period.dash.checknoteoutputfin.entry*

FUNCTION misc output.bibitem type missing *nottypeduplicate* 1 4 substring "Norm" = type 14 substring
 "Vorn" = OR " " * format.number * output new.sentence format.date output title empty *skip* add.period *new.sentenceif*
 format.btitle "title" output.check note set.period.dash.check note output duplicate 16 substring "Schutz" =
 " " * format.number * output new.sentence "(" * format.date ")" * output add.period *new.sentenceformat.authors.organ*
 output note output pop *pop* " " title empty *noteempty* url empty "there' snorelevantfieldin" cite warning *pop*
 " " format.url output if *note* " " * output.nonnull if author empty *editoreempty* organization empty *skip* for
 mat.editors.organization output.nonnull set.colon.after if *format.editorsformat.editors.organizationoutput.nonnullset.*
 format.authors format.editors output.nonnull set.colon.after if *format.btitleoutput.nonnullurlempty* for

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mat.edition output format.howpublished output format.howpublished output format.edition.or.date output
format.url output if format.online.lastchecknew.sentence format.misc.seriesoutputnoteoutputif ifi tle
emptynoteempty url empty"there'snorelevantfieldin"cite warningpop"" format.url output ifnote"" * output.nonnull
author emptyeditoreempty organization emptyskip format.editors.organization output.nonnull set.colon.after
if format.editors format.editors.organizationoutput.nonnullset.colon.afterif format.authors format.editors
output.nonnull set.colon.after if format.btitleoutput.nonnullurlempty format.edition output format.howpublished
output format.howpublished output format.url output format.edition.or.date output format.online.lastcheck
ifnew.sentence format.misc.seriesoutputnoteset.period.dash.checknoteoutputif if fin.entry

FUNCTION proceedings output.bibitem editor emptyorganizationempty "empty organization and ed-
itor in" cite*warning organization " (Veranst.)" * output if format.editors format.editors.organizationoutput.nonnull
set.colon.after format.btitle "title" output.check volume emptyskip "Bd." volume tie.or.space.connect em-
phasize "volume" output.check if format.address.publisher.year"publisher" output.checknew.sentence format.series.nu
skippagesset.period.dash.checkpages format.bkpages.collat.checkoutputif isbn set.period.dash.check issn set.period.dash
format.isbn.issn output note set.period.dash.check note output fin.entry

FUNCTION techreport output.bibitem author emptyformat.editors"authorandeditor" output.check format.tr.inst
set.colon.after format.title "title" output.check institution empty'skip author emptyeditoreempty AND
'skipinstitutionnew.sentence.checka"/"institution * output.nonnullif if format.version.urloutput format.online.lastch
skippagesset.period.dash.checkpages format.bkpages.collat.checkoutputif isbn set.period.dash.check issn set.period.dash
format.isbn.issn output note set.period.dash.check note "note" output.check fin.entry

FUNCTION unpublished misc
FUNCTION default.type misc
MACRO jan "Januar"
MACRO feb "Februar"
MACRO mar "März"
MACRO apr "April"
MACRO mai "Mai"
MACRO may "Mai"
MACRO jun "Juni"
MACRO jul "Juli"
MACRO aug "August"
MACRO sep "September"
MACRO okt "Oktober"
MACRO oct "Oktober"
MACRO nov "November"
MACRO dez "Dezember"
MACRO dec "Dezember"
READ
FUNCTION sortify purify"l"change.case
FUNCTION chop.word 's := 'len := s 1 len substring= slen1 + global.max substring'sif
FUNCTION initialize.et.al.char.used 0 'et.al.char.used :=
EXECUTE initialize.et.al.char.used
FUNCTION format.lab.names 's := s num.names'numnames := numnames1 > numnames4 > 3'namesleft := num
1 'nameptr := "" namesleft 0 ; nameptr numnames = s nameptr "ff vv ll jj" format.name"others" =
"+" * 1'et.al.char.used :=snameptr"l" format.name * if snameptr"l" format.name * if nameptr1+'nameptr :=
namesleft1-'namesleft := while numnames 4 ; "+" * 1 'et.al.char.used := 'skipif s 1 "l" format.nameduplicate
text.length2 < pop s 1 "ll" format.name3text.prefix 'skipif if

FUNCTION author.key.label author emptykeyempty cite13substring key 3 text.prefixif author
format.lab.names if

FUNCTION author.editor.key.label author emptyeditoreempty key emptycite 1 3 substringkey3text.prefix
ifeditor format.lab.namesif author format.lab.names if

FUNCTION author.key.organization.label author emptykeyempty organization emptycite 1 3 substring"The"4organ
ifkey3text.prefix ifauthor format.lab.namesif

```

```

FUNCTION editor.key.organization.label editor emptykeyempty organization emptycite 1 3 substring"The"4organiz
key 5 text.prefixif key emptyeditorformat.lab.nameskey5text.prefix ifif
FUNCTION calc.label type"book" = type "booklet" = type"inbook" = oror'author.editor.key.labeltype
"proceedings" = 'editor.key.organization.label type"manual" = ' author.key.organization.label'author.key.labelif
ifif duplicateyearfield.or.nullpurify-1 2 substring*'label := yearfield.or.nullpurify-1 4 substring*sortify/sort.label :=
FUNCTION sort.format.names 's := 1 'nameptr := "" s num.names'numnames := numnames'namesleft :=
namesleft0 > nameptr1 > ""*'skip ifnameptr"llffvvjj" format.name 't := nameptr numnames = t "oth-
ers" = and ua.etal * t sortify * ifnameptr1 +' nameptr := namesleft1 -' namesleft := while
FUNCTION sort.format.title 't := "A " 2 "An " 3 "Der " 4 "Die " 4 "Das " 4 "Ein " 4 "Eine " 5
"The " 4 t chop.word chop.word chop.word chop.word chop.word chop.word chop.word chop.word sortify 1
global.maxsubstring
FUNCTION author.sort author emptykeyempty "to sort, need author or key in " cite*warning ""
key sortify ifauthorsort.format.namesif
FUNCTION author.editor.sort author emptyeditoreempty key empty"tosort, needauthor, editor, orkeyin" cite
* warning""keysortifyif editor sort.format.names ifauthorsort.format.namesif
FUNCTION author.organization.sort author emptyorganizationempty key empty"tosort, needauthor, organization
* warning""keysortifyif "The " 4 organization chop.word sortify ifauthorsort.format.namesif
FUNCTION editor.organization.sort editor emptyorganizationempty key empty"tosort, neededitor, organization, o
* warning""keysortifyif "The " 4 organization chop.word sortify ifeditorsort.format.namesif
FUNCTION presort calc.label sort.label " " * type"book" = type "booklet" = type"inbook" =
oror'author.editor.sorttype "proceedings" = 'editor.organization.sort type"manual" = ' author.organization.sort'author
ifif * " " * year field.or.null sortify * " " * title field.or.null sort.format.title * 1 entry.maxsubstring
'sort.key:=
ITERATE presort
SORT
FUNCTION initialize.longest.label "" 'longest.label := 0 int.to.chr'last.sort.label := ""'next.extra :=
0'longest.label.width := 0'last.extra.num :=
FUNCTION forward.pass last.sort.label sort.label = last.extra.num 1 + 'last.extra.num := last.extra.num
int.to.chr'extra.label := "a"chr.to.int 'last.extra.num := "" 'extra.label := sort.label 'last.sort.label := if
FUNCTION reverse.pass next.extra "b" = "a" 'extra.label := 'skipif label extra.label * 'label :=
label widthlongest.label.width > label'longest.label := labelwidth 'longest.label.width := 'skipif extra.label
'next.extra :=
EXECUTE initialize.longest.label
ITERATE forward.pass
REVERSE reverse.pass
FUNCTION begin.bib et.al.char.used "[1]" writenewline 'skipif preambleempty 'skipppreamble
writenewline if"thebibliography"longest.label * ""*write newlinenewline "writenewline newline"[1]"write
newline""write newline"[1]doi : 1"write newline
EXECUTE begin.bib
EXECUTE init.state.consts
ITERATE call.type
FUNCTION end.bib newline"

```