

BIB_TE_X address database to addressfile converter*

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Abstract

`adrconv` is an example for converting BIB_TE_X address databases to KOMA-Script address files. For more information see the “ADRconv Anleitung”. This is only the implementation documentation.

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1 General

This implementation documentation is very rudimentary because it was not written by Axel Kielhorn but by Markus Kohm. I’ve done this because after two years waiting I wanted to make the break and remove the old version of `adrconv` from KOMA-Script.

The use of `adrconv` is described at the “ADRconv Anleitung”. You’ll get the guide, running T_EX or L^AT_EX in `adrconv.ins`.

*This file has version number v1.4, last revised 2018/01/30

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2 The interactive drivers

Remember the files should work not only with L^AT_EX but also with PlainT_EX. So we can only use macros, which are defined at both: L^AT_EX and PlainT_EX.

```
1 \catcode'\@=11
2 \newlinechar'\^^J
3 \message{%
4   Now you have to type in the name of the BibTeX addressfile, you want
5   to^^J%
6   convert to script-address-file-format (without extension
7   '.bib'):^^J%
8   Geben Sie nun den Namen der BibTeX-Adressdatei ein, die sie in
9   das^^J%
10  Script-Adressdateiformat konvertieren wollen (ohne '.bib'):^^J%
11  ^^J%
12  addressfile=%
13 }
14 \def\skiplastspace#1 \@e@o@l@{#1}
15 \read-1 to \addressfile
16 \edef\addressfile{\expandafter\skiplastspace\addressfile\@e@o@l@}
17 \newwrite\auxfile
18 \immediate\openout\auxfile=\addressfile.aux
19 \immediate\write\auxfile{%
20   \string\citation{*}^^J%
21   <conv> \string\bibstyle{adrconv}^^J%
22   <fax> \string\bibstyle{adrfax}^^J%
23   <birthday> \string\bibstyle{adrbirthday}^^J%
24   \string\bibdata{\addressfile}%
25 }
26 \immediate\closeout\auxfile
27 \message{%
28   After running BibTeX rename file '\addressfile.bbl' to
29   '\addressfile.adr'!^^J%
30   Nach dem BibTeX-Lauf benennen Sie bitte die Datei '\addressfile.bbl'
31   in^^J%
32   '\addressfile.adr' um!^^J%
33 }
34 \ifx\@@end\undefined\let\@@end\end\fi
35 \@@end
```

3 The interactive generator

```
36 \documentclass[headsepline,10pt,twoside,pagesize]{scrartcl}
```

Define some new commands

```
37 \newcommand*\jj {j}
38 \newcommand*\ja {ja}
39 \newcommand*\y {y}
40 \newcommand*\yes{yes}
```

```

41 \newread\ttyin
42 \newcommand*\gobble}[1]{}
43 \def\iden#1{#1}
44 \def\strip#1#2 \gobble{\def #1{#2}}
45 \def\defpar{\par}
46 \def\Ask#1#2{%
47   \message{#2}\read\ttyin to #1\ifx#1\defpar\def#1{}\else
48   \iden{\expandafter\strip\expandafter#1#1\gobble\gobble}
49   \gobble\fi}

\ifGerman to load german or ngerman. \RunningHead to get the names in the
header (Telephonebook style). Otherwise a new page is started for each new
letter (This is needed for Birthday lists).
50 \newif\ifGerman
51 \newif\ifRunningHead
52 \newif\ifEmail

53 \newdimen\leftfield
54 \newdimen\rightfield
55 \newdimen\adrindent
56 \oddsidemargin -1in
57 \evensidemargin -1in

58 \newcommand*\adrfile{}
59 \newcommand*\adrtitle{}
60 \typeout{^^J%
61   *** dir.tex v2.0 by Frank Neukam <01 Dec 1993>^^J%
62   *** LaTeX2e-changes by Markus Kohm 1994/10/29^^J%
63   *** ADRconv-changes by Axel Kielhorn 1999^^J%
64   *** ngerman-changes by Markus Kohm 2001^^J%
65   ^^J%
66   To create a address-directory just answer the questions:^^J%
67   ^^J}

68 \Ask\answer{Use german? [y/n]^^J%
69   Mit deutscher Sprachanpassung? [j/n]}
70 \ifx\jj\answer\Germantrue\else
71 \ifx\ja\answer\Germantrue\else
72 \ifx\y\answer\Germantrue\else
73 \ifx\yes\answer\Germantrue\else
74   \Germanfalse\fi\fi\fi\fi
75 \ifGerman
76   \def\germanpackage{ngerman}
77   \Ask\answer{Mit alter deutscher Rechtschreibung? [j/n]}
78   \ifx\jj\answer\def\germanpackage{german}\else
79   \ifx\ja\answer\def\germanpackage{german}\else
80   \ifx\y\answer\def\germanpackage{german}\else
81   \ifx\yes\answer\def\germanpackage{german}\fi\fi\fi\fi
82   \usepackage{\germanpackage}
83 \fi

84 \Ask\answer{^^JPrint email? [y/n]^^J%
85   E-Mail ausgeben? [j/n]}

```

```

86 \ifx\jj\answer\Emailtrue\else
87 \ifx\ja\answer\Emailtrue\else
88 \ifx\y\answer\Emailtrue\else
89 \ifx\yes\answer\Emailtrue\else
90         \Emailfalse\fi\fi\fi\fi
91 \ifEmail
92 \usepackage{url}
93 \fi
94 \InputIfFileExists{dir.cfg}{%
95   \typeout{Load local configuration-file.}}{%
96   \typeout{No local configuration-file found.}}
97 \Ask\adrfile{^^J%
98   Name of address-file (without .adr)?^^J%
99   Name der Adressdatei (ohne .adr)?}
100 \Ask\adrttitle{^^J%
101   Title of directory/list?^^J%
102   Titel des Verzeichnisses?}
103 \Ask\adrformat{^^J%
104   Name of the layout^^J%
105   Layoutname?}
106 \Ask\answer{^^J%
107   With running head? [y/n]^^J%
108   Namen in der Kopfzeile? [j/n]}
109 \ifx\jj\answer\RunningHeadtrue\else
110 \ifx\ja\answer\RunningHeadtrue\else
111 \ifx\y\answer\RunningHeadtrue\else
112 \ifx\yes\answer\RunningHeadtrue\else
113         \RunningHeadfalse\fi\fi\fi\fi

Since the file uses scartcl it assumes that sclayer-scrpage is available. We do not
use scrpage any longer, because it is not longer part of the KOMA-Script bundle
for more than 10 years.
114 \ifRunningHead
115 \usepackage[manualmark,headsepline]{sclayer-scrpage}
116 \clearpaairofpagestyles
117 \ohead{\if@twoside\rightmark\ -- \leftmark\fi}
118 \chead{\if@twoside\else\rightmark\ -- \leftmark\fi}
119 \ofoot{\if@twoside\pagemark\fi}
120 \cfoot{\if@twoside\else\pagemark\fi}
121 \fi
122 \setkomafont{pagehead}{\sffamily\bfseries}

Loading the Layout definition. If no filename is specified, adrdir will be used.
123 \ifx\adrformat\empty
124   \def\adrformat{adrdir}
125 \fi
126 \InputIfFileExists{\adrformat.cfg}{%
127   \typeout{^^J%
128     *** File \adrformat.cfg not found!^^J%
129     *** Datei \adrformat.cfg nicht gefunden!^^J%
130     ^^J}

```

```

131 }
    All definitions are done, let's start with the document.
132 \begin{document}
    Don't start a new page for every letter when running head is used.
133 \ifRunningHead
134   \def\adrchar#1{\typeout{#1}}
135 \else
136   \def\adrchar#1{\clearpage\typeout{#1}\markboth{#1}{#1}}
137 \fi

    This command does all the formatting:
138 %\adrentry
139 % 1 {Nachname}
140 % 2 {Vorname}
141 % 3 {Strasse \ \ PLZ Ort}
142 % 4 {Telefon\Mobil}
143 % 5 {E-Mail} \ifEmail
144 % 6 {Organisation}
145 % 7 {Notiz}
146 % 8 {Key}
147 \def\adrentry#1#2#3#4#5#6#7#8{\hspace{\adrindent}}%
148 \parbox[b]{\leftfield}
149   {\raggedright \hspace{-\adrindent}{\normalfont\scshape #1}}%
150   \def\tempa{#1}\ifx \tempa\empty \else , #2\fi%
151   \def\tempa{#3}\ifx \tempa\empty \else \par #3\fi%
152   \ifEmail
153     \def\tempa{#5}\ifx \tempa\empty \else \par \url{#5}\fi%
154   \fi
155   \def\tempa{#7}\ifx \tempa\empty \else \par (#7)\fi%
156 }%
157 \hfill%
158 \parbox[b]{\rightfield}
159   {\raggedleft%
160     \def\tempa{#8}\ifx \tempa\empty \else {\scriptsize #8}\par \fi
161     {\small #4}}%
162   }\par%
163 \ifRunningHead
164   \markboth{#1}{#1}
165 \fi
166 }
167 \def\addrentry#1#2#3#4#5#6#7#8#9{%
168   \adrentry{#1}{#2}{#3}{#4}{#5}{#6}{#7}{#9}}%
169 }
170 \def\addrchar{\adrchar}
171 \ifx\adrfile\empty \else
172   \InputIfFileExists{\adrfile.adr}{%
173     \pagestyle{empty}
174     \null\vfil
175     \begin{center}
176       {\Large \normalfont\sffamily\bfseries \adrtitle\par}

```

```

177     \end{center}
178     \vfil\vfil\null
    Always start on a right page
179     \cleardoublepage
180     \raggedbottom
181     \pagestyle{headings}
182     }{%
183     \typeout{^^J%
184             *** File \adrfile.adr not found!^^J%
185             *** Datei \adrfile.adr nicht gefunden!^^J%
186             ^^J}
187     }
188 \fi
189 \end{document}

```

4 The configuration files

190 `<*dir>`

Configfile for A6 phone book (105 mm × 148 mm). Original was former part of KOMA-Script.

```

191 \setlength{\paperwidth}{105mm}
192 \setlength{\textwidth}{85mm}
193 \setlength{\leftfield}{50mm}
194 \setlength{\rightfield}{30mm}

195 \addtolength{\evensidemargin}{9mm}
196 \addtolength{\oddsidemargin}{\paperwidth}
197 \addtolength{\oddsidemargin}{-9mm}
198 \addtolength{\oddsidemargin}{-\textwidth}

199 </dir>

```

200 `<*planer>`

Configfile for organizers (95 mm × 172 mm) maybe from ALDI.

```

201 \setlength{\paperwidth}{95mm}
202 \setlength{\textwidth}{70mm}
203 \setlength{\leftfield}{45mm}
204 \setlength{\rightfield}{25mm}

205 \addtolength{\evensidemargin}{12mm}
206 \addtolength{\oddsidemargin}{12mm}

207 </planer>

```

208 `<*small>`

Configfile for pocket calenders (87 mm × 148 mm) e.g. “Sparkassenkalender”.

```

209 \setlength{\paperwidth}{87mm}
210 \setlength{\textwidth}{75mm}
211 \setlength{\leftfield}{45mm}
212 \setlength{\rightfield}{30mm}

213 \addtolength{\evensidemargin}{9mm}

```

```

214 \addtolength{\oddsidemargin}{\paperwidth}
215 \addtolength{\oddsidemargin}{-9mm}
216 \addtolength{\oddsidemargin}{-\textwidth}
217 </small>
218 \setlength{\adrindent}{1em}
219 \addtolength{\leftfield}{-\adrindent}
220 <*dir>
221 \setlength{\paperheight}{148mm}
222 \setlength{\textheight}{112mm}
223 </dir>
224 <*planer>
225 \setlength{\paperheight}{172mm}
226 \setlength{\textheight}{148mm}
227 </planer>
228 <*small>
229 \setlength{\paperheight}{148mm}
230 \setlength{\textheight}{112mm}
231 </small>
232 \setlength{\headheight}{1.25\baselineskip}
233 \setlength{\headsep}{0.25\baselineskip}
234 \setlength{\footskip}{1.50\baselineskip}
235 \setlength{\topmargin}{-1in}
236 <dir>\addtolength{\topmargin}{8mm}
237 <planer | small>\addtolength{\topmargin}{7mm}
238 \setlength{\marginparwidth}{0in}
239 \setlength{\marginparsep}{0in}
240 \setlength{\marginparpush}{0in}
241 \setlength{\parskip}{0.5\baselineskip}
242 \setlength{\parindent}{0in}
243 \typeout{%
244 *****%
245 ^^J^^J%
246 DVIDVI Options:^^J%
247 Front:^^J%
248 <*dir | small>
249 <dir> 1st Step (2 x A6 at A5)^^J%
250 <small> 1st Step (2 x callenders at A5)^^J%
251 -l xx -m 4:-1,2^^J%
252 2nd Step (2 x A5 at A4)^^J%
253 -m 2:0,1(0mm,148mm)^^J%
254 </dir | small>
255 <planer> -l 24 -m 6:0(4mm,0mm),2(99mm,0mm),4(192mm,0mm)
256 ^^J%
257 Back:^^J%
258 <*dir | small>
259 1st Step^^J%
260 -l xx -r -m 4:-3,0^^J%
261 2nd Step^^J%
262 -m 2:1,0(0mm,148mm)^^J%

```

```

263 </dir | small>
264 <planer> -l 24 -r -m 6:5(8mm,0mm),3(103mm,0mm),1(198mm,0mm)
265 ^^J%
266 <dir | small> xx must be the result of a multiplication with 4.^^J%
267 <small> Cut 36 mm from one side and tack in the middle.^^J%
268 ^^J%
269 *****
270 }

```

German Remark from Axel to `adrdir.cfg`:

Das ist die einfache Version, einfach in der Mitte durchschneiden, Seiten sortieren, ineinanderstecken und heften.

Nicht alle Tacker können dieses Format verarbeiten, ich habe lange gesucht und benutze den Novus B5, der passt ganz knapp und ist noch bezahlbar. Danach kommen die Hochleistungstacker über 50 DM.

German Remark from Axel to `adrplaner.cfg`:

Der Deskjet kann die letzten 14 mm des Blattes nicht bedrucken, daher wurde das ganze Layout um 4mm verschoben, diese müssen an der kurzen Kante abgeschnitten werden.

Bei anderen Druckern kann man bei den Vorderseiten 3 mm von der x-Koordinate abziehen und bei den Rückseiten zuaddieren.

German Remark from Axel to `adrsmall.cfg`:

Von einer Seite müssen noch 36 mm abgeschnitten werden, dann in der Mitte heften und in den Taschenkalender einstecken.

5 The BibTeX files

These BibTeX files are BibTeX-Database to `scrlttr` converters. They are based on BibTeX bibliography style `address` Gerd Neugebauer has written in 1994.

The files generated from these files may be used for `scrlttr`, `scrlttr2`, `phone.tex` or `dir.tex` from the KOMA-Script Package, `akletter` and some versions of `myletter` which preceded `akletter`. They will even work with the L^AT_EX2.09 version of SCRIPT.

This is only one way to use the `address` database layout defined by Gerd Neugebauer. Use this as an example for your own conversion program.

The `adrbirthday.bst` prints the entries with birthdays only. The entries are sorted by month and inside one month by date.

```

271 ENTRY
272 { name
273   sortas
274   title
275   organization
276   city

```



```

277     zip
278     country
279     street
280     phone
281     mobile
282     fax
283     url
284     email
285     note
286     key
287     birthday
288     nbirthday
289 }
290 {}
291 <!birthday> { adr.char }
292 <birthday> { b.month }

293 <!birthday>INTEGERS { cur.adr.char }
294 <birthday>STRINGS { cur.month num.index alpha.index }

295 FUNCTION {get.names}
296 { name empty$
297   { organization empty$
298     { "{}-{}" }
299     { organization "{}" * }
300     if$
301   }
302   { "{" name #1 "{ll}" format.name$ "}" * *
303     "{" name #1 "{ff}{ vv}" format.name$ "}" * * *
304   }
305   if$
306 }

307 FUNCTION {print.adrchr}
308 <!*birthday>
309 { adr.char chr.to.int$ cur.adr.char >
310   { newline$ "\adrchar{" adr.char "}" * * write$ newline$
311     adr.char chr.to.int$ 'cur.adr.char :=
312   }
313   'skip$
314 </!birthday>
315 <*birthday>
316 { b.month cur.month =
317   'skip$
318   { newline$ "\adrchar{\convdate{" b.month "}}" * * write$ newline$
319     b.month 'cur.month :=
320   }
321 </birthday>
322   if$
323 }

324 <!*fax>

```

```

325 FUNCTION{format.phone.and.mobile}
326 { phone empty$
327   {
328     mobile empty$
329     { "" }
330     { mobile }
331     if$
332   }{
333     mobile empty$
334     { phone }
335     { phone "\\\" mobile * * }
336     if$
337   }
338   if$
339 }
340 </!fax>

341 <*fax>
342 FUNCTION{format.phone.and.fax}
343 { phone empty$
344   { "" }
345   { phone }
346   if$
347   fax empty$
348   'skip$
349   { phone empty$
350     { fax * }
351     { "\\Fax:\\\" fax * * }
352     if$
353   }
354   if$
355 }
356 </fax>

357 FUNCTION{address}
358 {
359 <*birthday>
360 nbirthday empty$
361 'skip$
362 {
363 </birthday>
364   print.adrchr
365   "\adrentry" write$
366   get.names write$ newline$
367   "{"
368   street empty$
369   { "" * }
370   { street " \\ " * *}
371   if$
372   zip empty$
373   { "" * }

```

```

374     { zip " " * *}
375   if$
376   city empty$
377   { "" * }
378   { city * }
379   if$
380   "}" *
381 <fax>   format.phone.and.mobile
382 <fax>   format.phone.and.fax
383   "}" * *
384   email empty$
385   { "{}" * }
386   { "{" email "}" * * * }
387   if$
388   organization empty$
389   { "{}" * }
390   { "{" organization "}" * * * }
391   if$
392   note empty$
393   { "{}" * }
394   { "{" note "}" * * * }
395   if$
396   "{" *
397 <*birthday>
398   birthday empty$
399   { "" }
400   { birthday }
401   if$
402   "}" * *
403 </birthday>
404   key empty$
405   { "" }
406   { key }
407   if$
408   "}" * * write$ newline$
409 <*birthday>
410   }
411   if$
412 </birthday>
413 }

414 FUNCTION{presort}
415 <!*birthday>
416 {
417   sortas empty$
418   { name empty$
419     { organization empty$
420       { key empty$
421         { "No name, organization, or key to sort " cite$ * warning$
422           "???"

```

```

423     }
424     { key }
425     if$
426   }
427   { organization }
428   if$
429 }
430 { name #1 "{l1},{f }{v }{, j}" format.name$ }
431 if$
432 }
433 { sortas }
434 </!birthday>
435 <*birthday>
436 { nbirthday empty$
437   { "" }
438   { nbirthday }
439 </birthday>
440 if$
441 duplicate$
442 'sort.key$ :=
443 <*!birthday>
444 #1 #1 substring$
445 'adr.char :=
446 </!birthday>
447 <*birthday>
448 #1 #2 substring$
449 'b.month :=
450 </birthday>

  At every but adrbirthday.bst the adr.char is the first letter of the sort.key.
451 }

452 READ

453 ITERATE {presort}

454 SORT

455 FUNCTION {begin.bib}
456 {
457 <*birthday>
458 "\def\convdate#1{\ifcase#1 \or 1 \or 2 \or 3 \or 4 \or 5 "
459 "\or 6 \or 7 \or 8 \or 9 \or 10 \or 11 \or 12 \fi}" * 'num.index :=
460 "\def\convdate#1{\ifcase#1 \or Januar \or Februar \or "
461 " M{^b a}rz \or April \or Mai \or Juni \or Juli "
462 "\or August \or September \or Oktober \or November \or Dezember \fi}"
463 * * 'alpha.index :=
464 alpha.index write$
465 newline$
466 </birthday>
467 preamble$ empty$
468 'skip$

```

```

469 { preamble$ write$ newline$ }
470 if$
471 (!birthday) #0 'cur.adr.char :=
472 (birthday) "00" 'cur.month :=
473 }
474 %\iffalse
475 % $$ <-- we do this to correct syntax highlight.
476 %\fi
477 % \begin{macrocode}
478 EXECUTE {begin.bib}
479 ITERATE {call.type$}

Print a newline and flush the write buffer
480 FUNCTION {end.bib}
481 { newline$ }
482 EXECUTE {end.bib}

```

6 An example BibTeX database

Do not believe everything you read here. It is just a demonstration.

```

483
484 @address{VornameNachname,
485   name = {Vorname Nachname},
486   street = {Strasse},
487   zip = {PLZ},
488   city = {Ort},
489   phone = {Telefon},
490   email = {E-mail@domain},
491   mobile = {Mobil},
492   birthday = {Geburtstag},
493   note = {Notiz},
494   organization = {Organisation},
495   key = {Key},
496   nbirthday = {0101},
497 }
498
499 @address{mustermann,
500   name = {Hans Mustermann},
501   city = {Heimstatt},
502   zip = 01234,
503   country = {D -},
504   street = {Einbahnstra{\ss}e 1},
505   phone = {01234 / 5 67 89},
506   fax = {01234 / 5 67 89},
507   email = {hm@work.com},
508   note = {Alles nur Erfindung},
509 }
510 @address{AxelK,

```

```

511 name = {Axel Kielhorn},
512 city = {Verden},
513 zip = 27283,
514 street = {Lange Stra{\ss}e 17},
515 phone = {04231 / 12 34 56},
516 fax = {04231 / 65 34 21},
517 email = {a.kielhorn@web.de},
518 key = {Aki},
519 note = {Author of the modified addressen.bst},
520 birthday = {16.05.1967},
521 nbirthday = 0516,
522 }
523 @address{RalfK,
524 name = {Ralf Kielhorn},
525 city = {Braunschweig},
526 zip = 38116,
527 street = {Gro{\ss}e Stra{\ss}e 17},
528 phone = {0531 / 12 34 56},
529 key = {Rki},
530 birthday = {05.08.1969},
531 nbirthday = 0805,
532 }
533 @address{SabineK,
534 name = {Sabine Kielhorn},
535 city = {Oldenburg},
536 zip = 26133,
537 street = {Fraunhoferstra{\ss}e 21},
538 phone = {0441 / 12 34 56},
539 key = {Ski},
540 birthday = {13.11.1970},
541 nbirthday = 1113,
542 }
543 @address{OEKZ,
544 name = {{{"0}kologisches Zentrum~e.\,V.}},
545 sortas = {Okologisches Zentrum},
546 organization = {Verband der Vereine},
547 city = {Heimstatt},
548 zip = 01234,
549 country = {Germany},
550 street = {Mauerstra{\ss}e 1},
551 phone = {01234 / 5 67 89},
552 fax = {01234 / 5 67 89},
553 email = {hm@work.com},
554 key = {OEKZ},
555 }
556 @address{DANTE,
557 name = {{DANTE~e.\,V.}},
558 sortas = {Dante},
559 street = {Postfach 10 18 40},
560 zip = {69008},

```

```

561 city      = {Heidelberg},
562 phone     = {0 62 21 / 2 97 66},
563 fax       = {0 62 21 / 16 79 06},
564 email     = {dante@dante.de},
565 url       = {http://www.dante.de},
566 key       = {DANTE},
567 birthday  = {14. April 1989},
568 nbirthday = {0414}
569   }
570
      i*montage;
571 \documentclass{article}
572 \usepackage{geometry}
573 \geometry{verbose,twoside,nofoot,pdftex,%
574 <erster>a5paper,top=0mm,bottom=0mm,inner=0mm}
575 <zweiter>a4paper,top=0mm,bottom=0mm,inner=0mm}
576 \usepackage{pdfpages}
577 \begin{document}
578 \includepdf [pages={-},
579 landscape,
580 nup=1x2,
581 <erster>signature=16,
582 <zweiter>signature=4,
583 <erster>noautoscale,scale=1]{adrdire.pdf}
584 <zweiter>noautoscale,scale=1]{adrmontage1.pdf}
585 \end{document}
      i/montage;

```