

The pdfcolmk package

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Abstract

This package tries a solution for the missing color stack of pdfTeX.

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1 Documentation

1.1 Introduction

This package uses a mark register in order to solve the problem of a missing color stack of pdfTeX prior 1.40.0. Since this version of pdfTeX a color stack is available and supported by `pdftex.def` 2007/01/01 v0.04a. In this case this package is obsolete and the package stops its loading.

1.2 Background

After the Dante meeting (Clausthal 2000) I have started to experiment with the eTeX method of a *colour* mark. One of the major problems is the understanding of the output routine and the need to rewrite it because of missing hooks. Currently I have made some tests in in onecolumn and twocolumn mode, but the state is experimental.

1.3 Limitations

- Mark limitations: page breaks in math.
- L^AT_EX's output routine is redefined.
 - Changes in the output routine of newer versions of LaTeX are not detected.
 - Packages that change the output routine are not supported.
- It does not support several independent text streams like footnotes.
- Limitations in float and marginpar support.

1.4 Recommendation

ε -T_EX (for additional mark register) Without ε -T_EX L^AT_EX's mark commands are redefined to store an additional color value.

1.5 Usage

Load after package color:

```
\usepackage[pdftex]{color}
\usepackage{pdfcolmk}
```

1.6 Compatibility

- Load the following packages after pdfcolmk:


```
mparhack.sty
```
- Load the following packages before pdfcolmk:


```
marn.sty
newmarn.sty
```
- Supported `\@addmarginpar` patch:

latex/base/latex.ltx
 memoir.cls
 poemscol/marn.sty, poemscol/newmarn.sty
 mparhack.sty

- Unsupported \@addmarginpar patch:

lineno.sty
 sttools/marginal.sty
 revtex4.cls

2 Implementation

```

1 \(*package)
Package identification.
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolmk}%
4   [2008/08/11 v1.2 Color support for pdfTeX via marks (HO)]
5 \@ifundefined{ver@pdftex.def}{%
6   \PackageWarningNoLine{pdfcolmk}{%
7     Nothing to fix, because \string'pdftex.def\string' not loaded%
8   }%
9   \endinput
10 }{}
11 \@ifpackageloaded{color}{%
12   \PackageWarningNoLine{pdfcolmk}{%
13     Nothing to fix, because \string'color.sty\string' not loaded%
14   }%
15   \endinput
16 }
17 \begingroup\expandafter\expandafter\expandafter\endgroup
18 \expandafter\ifx\csname main@pdfcolorstack\endcsname\relax
19 \else
20   % pdftex.def >= 2007/01/01 0.04a and pdfTeX >= 1.40.0
21   \begingroup
22     \let\on@line\@empty
23     \PackageInfo{pdfcolmk}{%
24       The color stack of pdfTeX \string>\string= 1.40 is used. %
25       Therefore\MessageBreak
26       this package is not necessary and not loaded%
27     }%
28   \endgroup
29   \expandafter\endinput
30 \fi
31
32 \PackageInfo{pdfcolmk}{%
33   This package tries to simulate dvips's color stack\MessageBreak
34   for pdfTeX based on a mark register of e-TeX.\MessageBreak
35   It redefines LaTeX's output routine. Therefore\MessageBreak
36   use with care, no warranties%
37 }
38
39 \ifx\marks\@undefined
40
41   \let\pec@mark\mark
42   \let\pec@value\empty
43   \long\def\mark#1{%

```

```

44 \protected@xdef\pec@value{#1}%
45 \pec@setmark
46 }%
47 \def\pec@setmark{%
48 \begingroup
49 \@temptokena\expandafter{\pec@value}%
50 \pec@mark{{\current@color}\the\@temptokena}%
51 \endgroup
52 }%
53 \def\pec@getmark{%
54 \xdef\pec@botcolor{%
55 \expandafter\@firstofthree\botmark\@empty\@empty\@empty
56 }%
57 }%
58 \long\def\@firstofthree#1#2#3{#1}%
59 \CheckCommand{\@leftmark}[2]{#1}%
60 \CheckCommand{\@rightmark}[2]{#2}%
61 \CheckCommand*{\leftmark}{%
62 \expandafter\@leftmark\botmark\@empty\@empty
63 }%
64 \CheckCommand*{\rightmark}{%
65 \expandafter\@rightmark\firstmark\@empty\@empty
66 }%
67 \long\def\@leftmark#1#2#3{#2}%
68 \long\def\@rightmark#1#2#3{#3}%
69 \g@addto@macro\leftmark\@empty
70 \g@addto@macro\rightmark\@empty
71
72 \else
73
74 \RequirePackage{etex}[1998/03/26]%
75 \newmarks\pec@marks
76 \def\pec@setmark{\marks\pec@marks{\current@color}}%
77 \def\pec@getmark{\xdef\pec@botcolor{\botmarks\pec@marks}}%
78
79 \fi

```

2.1 \marginpar fix

```

80 \chardef\pec@result\z@
81 \def\pec@temp#1{%
82 \chardef\pec@result\@ne
83 \begingroup
84 \let\on@line\@empty
85 \PackageInfo{pdfcolmk}{%
86 Patch for \string\@addmarginpar\space applied (#1)%
87 }%
88 \endgroup
89 }

```

2.1.1 latex/base/latex.ltx

```

90 \def\pec@addmarginpar{%
91 \@next\@marbox\@currlist{%
92 \@cons\@freelist\@marbox
93 \@cons\@freelist\@currbox
94 }\@latexbug
95 \@tempcnta\@ne
96 \if@twocolumn
97 \if@firstcolumn

```

```

98     \@tempcnta\m@ne
99     \fi
100    \else
101      \if@mparswitch
102        \ifodd\c@page
103          \else
104            \@tempcnta\m@ne
105          \fi
106        \fi
107      \if@reversemargin \@tempcnta -\@tempcnta \fi
108    \fi
109    \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
110    \@tempdima\@mparbottom
111    \advance\@tempdima -\@pageht
112    \advance\@tempdima\ht\@marbox
113    \ifdim\@tempdima >\z@
114      \@latex@warning@no@line{Marginpar on page \thepage\space moved}%
115    \else
116      \@tempdima\z@
117    \fi
118    \global\@mparbottom\@pageht
119    \global\advance\@mparbottom\@tempdima
120    \global\advance\@mparbottom\dp\@marbox
121    \global\advance\@mparbottom\marginparpush
122    \advance\@tempdima -\ht\@marbox
123    \global\setbox\@marbox\vbox{%
124      \vskip \@tempdima
125      \box \@marbox
126    }%
127    \global \ht\@marbox \z@
128    \global \dp\@marbox \z@
129    \kern -\@pagedp
130    \nointerlineskip
131    \hb@xt@\columnwidth{%
132      \ifnum \@tempcnta >\z@
133        \hskip\columnwidth
134        \hskip\marginparsep
135      \else
136        \hskip -\marginparsep
137        \hskip -\marginparwidth
138      \fi
139      \box\@marbox \hss
140    }%
141    \nointerlineskip
142    \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
143  }
144 \ifx\pec@addmarginpar\@addmarginpar
145   \pec@temp{latex/base}%
146 \fi

```

2.1.2 memoir.cls

```

147 \def\pec@addmarginpar{%
148   \checkoddpage
149   \@next\@marbox\@currlist{%
150     \@cons\@freelist\@marbox
151     \@cons\@freelist\@currbox
152   }\@latexbug
153   \@tempcnta\@ne

```

```

154 \if@twocolumn
155   \if@firstcolumn
156     \@tempcnta\m@ne
157   \fi
158 \else
159   \if@mparswitch
160     \ifoddpage
161     \else
162       \@tempcnta\m@ne
163     \fi
164   \fi
165   \if@reversemargin
166     \@tempcnta -\@tempcnta
167   \fi
168 \fi
169 \ifnum\@tempcnta <\z@
170   \global\setbox\@marbox\box\@currbox
171 \fi
172 \@tempdima\@mparbottom
173 \advance\@tempdima -\@pageht
174 \advance\@tempdima\ht\@marbox
175 \ifdim\@tempdima >\z@
176   \@latex@warning@no@line{%
177     Marginpar on page \thepage\space moved by \the\@tempdima
178   }%
179 \else
180   \@tempdima\z@
181 \fi
182 \global\@mparbottom\@pageht
183 \global\advance\@mparbottom\@tempdima
184 \global\advance\@mparbottom\dp\@marbox
185 \global\advance\@mparbottom\marginparpush
186 \advance\@tempdima -\ht\@marbox
187 \global\setbox\@marbox\vbox{%
188   \vskip \@tempdima
189   \box \@marbox
190 }%
191 \global \ht\@marbox \z@
192 \global \dp\@marbox \z@
193 \kern -\@pagedp
194 \nointerlineskip
195 \hb@xt@\columnwidth{%
196   \ifnum \@tempcnta >\z@
197     \hskip\columnwidth
198     \hskip\marginparsep
199   \else
200     \hskip -\marginparsep
201     \hskip -\marginparwidth
202   \fi
203   \box\@marbox
204   \hss
205 }%
206 \nointerlineskip
207 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
208 }%
209 \ifx\pec@addmarginpar\@addmarginpar
210   \pec@temp{memoir.cls}%
211 \fi

```

2.1.3 poemscol/marn.sty, poemscol/newmarn.sty

```

212 \def\pec@addmarginpar{%
213   \@next \@marbox\@currlist{%
214     \@cons\@freelist\@marbox
215     \@cons\@freelist\@currbox
216   }\@latexbug
217   \global\advance\@mpar@count\m@ne
218   \ifundefined{@marn@the\@mpar@count @}{% was location logged last time?
219     \@tempcnta\@one % NO: use original LaTeX logic
220     \if@twocolumn
221       \if@firstcolumn
222         \@tempcnta\m@ne
223       \fi
224     \else
225       \if@mparswitch
226         \ifodd\c@page
227           \else
228             \@tempcnta\m@ne
229           \fi
230         \fi
231       \if@reversemargin
232         \@tempcnta -\@tempcnta
233       \fi
234     \fi
235   }{%
236     \@tempcnta % YES: use record from last time to decide side.
237     \@nameuse{@marn@the\@mpar@count @}%
238     \if@reversemargin -\fi \@one
239   }%
240   \ifnum\@tempcnta <\z@
241     \global\setbox\@marbox\box\@currbox
242     \global\let\@marnbottom\@mparbottoml
243   \else
244     \global\let\@marnbottom\@mparbottom
245   \fi
246   \@tempdima\@marnbottom \advance\@tempdima -\@pageht
247   \advance\@tempdima\ht\@marbox
248   \ifdim\@tempdima >\z@
249     \@warning{Marginpar on page \thepage\space moved}%
250   \else
251     \@tempdima\z@
252   \fi
253   \global\@marnbottom\@pageht
254   \global\advance\@marnbottom\@tempdima
255   \global\advance\@marnbottom\dp\@marbox
256   \global\advance\@marnbottom\marginparpush
257   \advance\@tempdima -\ht\@marbox
258   \global\ht\@marbox\z@
259   \global\dp\@marbox\z@
260   \vskip -\@pagedp
261   \vskip\@tempdima\nointerlineskip
262   \hbox to\columnwidth{%
263     \ifnum \@tempcnta >\z@
264       \hskip\columnwidth
265       \hskip\marginparsep
266     \else
267       \hskip -\marginparsep
268       \hskip -\marginparwidth

```

```

269 \fi
270 \if@filesw % record where this is for use next time:
271 \marn@log\@mpar@count
272 \fi
273 \box\@marbox
274 \hss
275 }%
276 \nobreak %% RmS 91/06/21 \nobreak added
277 \vskip -\@tempdima
278 \nointerlineskip
279 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
280 }
281 \ifx\pec@addmarginpar\@addmarginpar
282 \pec@temp{poemscol/(new)marn.sty}%
283 \fi

```

2.1.4 refman/refart.cls, refnam/refrep.cls

```

284 \def\pec@addmarginpar{%
285 \next\@marbox\@currlist{%
286 \cons\@freelist\@marbox
287 \cons\@freelist\@currbox
288 }\@latexbug
289 \@tempcnta\@ne
290 \if@twocolumn
291 \if@firstcolumn
292 \@tempcnta\m@ne
293 \fi
294 \else
295 \@tempcnta\m@ne
296 \fi
297 \ifnum\@tempcnta <\z@
298 \global\setbox\@marbox\box\@currbox
299 \fi
300 \@tempdima\@mparbottom
301 \advance\@tempdima -\@pageht
302 \advance\@tempdima\ht\@marbox
303 \ifdim\@tempdima >\z@
304 \@@warning{Marginpar on page \thepage\space moved}%
305 \else
306 \@tempdima\z@
307 \fi
308 \global\@mparbottom\@pageht
309 \global\advance\@mparbottom\@tempdima
310 \global\advance\@mparbottom\dp\@marbox
311 \global\advance\@mparbottom\marginparpush
312 \advance\@tempdima -\ht\@marbox
313 \global\setbox\@marbox\vbox{%
314 \vskip \@tempdima \box \@marbox
315 }%
316 \global \ht\@marbox \z@
317 \global \dp\@marbox \z@
318 \kern -\@pagedp
319 \nointerlineskip
320 \hb@xt@\columnwidth{%
321 \ifnum \@tempcnta >\z@
322 \hskip\columnwidth
323 \hskip\marginparsep
324 \else

```



```

325     \hskip -\marginparsep
326     \hskip -\marginparwidth
327     \fi
328     \box\@marbox
329     \hss
330 }%
331 \nointerlineskip
332 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
333 }
334 \ifx\pec@addmarginpar\@addmarginpar
335   \pec@temp{ref(art|rep).cls}%
336 \fi
337
338 \ifcase\pec@result
339   \PackageInfo{pdfcolmk}{%
340     Fix for \string\@addmarginpar\space is omitted, %
341     because this variant\MessageBreak
342     of \string\@addmarginpar\space
343     is not recognized%
344   }%
345 \else
346   % apply patch for \@addmarginpar
347   \def\pec@PatchAddMarginpar#1\columnwidth#2#3\@nil{%
348     \pec@PatchAddMarginparI#2\@nil{#1}{#3}%
349   }%
350   \def\pec@PatchAddMarginparI#1\box\@marbox\hss#2\@nil#3#4{%
351     \def\@addmarginpar{%
352       #3%
353       \columnwidth{%
354         #1%
355         \pdfliteral{q}%
356         \rlap{%
357           \box\@marbox
358         }%
359         \pdfliteral{Q}%
360         \hss
361       #2%
362     }%
363     #4%
364   }%
365 }%
366 \expandafter\pec@PatchAddMarginpar\@addmarginpar\@nil
367 \fi

```

2.2 Color fix

```

368 \def\set@color{%
369   \pdfliteral{\current@color}%
370   \ifinner
371   \else
372     \pec@setmark
373   \fi
374   \aftergroup\reset@color
375 }
376 \def\reset@color{%
377   \pdfliteral{\current@color}%
378   \ifinner
379   \else
380     \pec@setmark

```

```

381 \fi
382 }
383
384 \let\pec@botcolor\current@color
385
386 \def\pec@PatchVBoxCCLV{%
387 \ifx\pec@botcolor\@empty
388 \else
389 \setbox\@cclv\vbox{%
390 \pdfliteral{\pec@botcolor}%
391 \unvbox\@cclv
392 }%
393 \fi
394 \pec@getmark
395 }
396
397 \def\pec@PatchAlreadyInBox{%
398 \ifx\pec@botcolor\@empty
399 \else
400 \pdfliteral{\pec@botcolor}%
401 \fi
402 \pec@getmark
403 }
404
405 \@ifclassloaded{memoir}{%
406 \expandafter\def\expandafter\mem@makecol\expandafter{%
407 \expandafter\pec@PatchVBoxCCLV
408 \mem@makecol
409 }%
410 \endinput
411 }{}
412
413 \@ifclassloaded{seminar}{%
414 \newcommand\pec@org@makeslide{%
415 \let\pec@org@makeslide\@makeslide
416 \def\@makeslide{%
417 \pec@PatchVBoxCCLV
418 \pec@org@makeslide
419 }%
420 \endinput
421 }{}
422
423 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
424 \begingroup
425 \def\x{#2}%
426 \expandafter\endgroup
427 \ifx\x\@empty
428 \PackageWarningNoLine{pdfcolmk}{%
429 Unexpected \string\output\space routine detected,%
430 \MessageBreak
431 loading of package stopped%
432 }%
433 \expandafter\endinput
434 \fi
435 }
436 \expandafter\expandafter\expandafter\pec@output
437 \expandafter\@firstofone\the\output\@specialoutput\else\pec@end
438

```

```

439 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
440   \output{%
441     #1\@specialoutput\else
442     \pec@PatchVBoxCCLV
443     #2%
444   }%
445 }
446 \expandafter\expandafter\expandafter\pec@output
447 \expandafter\@firstofone\the\output\pec@end
448 \end{package}

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.pdf](#) Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

TDS refers to the standard “A Directory Structure for T_EX Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```

chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/

```

3.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain T_EX:

```
tex pdfcolmk.dtx
```

¹<http://ftp.ctan.org/tex-archive/>

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
pdfcolmk.sty → tex/latex/oberdiek/pdfcolmk.sty
pdfcolmk.pdf → doc/latex/oberdiek/pdfcolmk.pdf
pdfcolmk.dtx → source/latex/oberdiek/pdfcolmk.dtx
```

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

3.4 Refresh file name databases

If your $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` users run `texhash` or `mktextlsr`.

3.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk pdfcolmk.pdf unpack_files output .
```

Unpacking with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{pdfcolmk.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

```
pdflatex pdfcolmk.dtx
makeindex -s gind.ist pdfcolmk.idx
pdflatex pdfcolmk.dtx
makeindex -s gind.ist pdfcolmk.idx
pdflatex pdfcolmk.dtx
```

4 Catalogue

The following XML file can be used as source for the [T_EX Catalogue](#). The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `pdfcolmk.xml`.

```
449 (*catalogue)
450 <?xml version='1.0' encoding='us-ascii'?>
451 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
452 <entry datestamp='$Date$' modifier='$Author$' id='pdfcolmk'>
453   <name>pdfcolmk</name>
454   <caption>Improving colour support under pdftex.</caption>
455   <authorref id='auth:oberdiek'>
456     <copyright owner='Heiko Oberdiek' year='2000,2005-2008'>
457       <license type='lppl1.3'>
458         <version number='1.2'>
459           <description>
460             The package provides macros that emulate the &#x2018;colour stack&#x2019;
461             functionality of dvips. The colour stack deals with colour
462             manipulations when asynchronous events (like page-breaking) occur;
463             pdftex does not (yet) have such a stack, but dvips does, and the
464             <xref refid='color'>color</xref> package makes extensive use of
465             it.
466           <p/>
467             This package is an experimental solution to the problem, and works
468             best with pdf-e-tex.
469           <p/>
470             The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
471         </description>
472         <documentation details='Package documentation'
473           href='ctan:/macros/latex/contrib/oberdiek/pdfcolmk.pdf'>
474           <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfcolmk.dtx'>
475             <miktex location='oberdiek'>
476               <texlive location='oberdiek'>
477                 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'>
478             </entry>
479 </catalogue>
```

5 History

[2000/08/27 v0.1]

- First published version in newsgroup `comp.text.tex`:
“[pdftex: bug with colors?](#)”²

[2000/09/02 v0.2]

- Next try.

[2000/09/02 v0.3]

- Solution without ϵ -T_EX added.

[2000/09/06 v0.4]

- Patch commands added.

²Url: <http://groups.google.com/group/comp.text.tex/msg/6f088e69e4085d2c>

- Patch for seminar.cls added.

[2000/09/06 v0.5]

- Bug fix: initialization of `\pec@value` added.

[2005/06/15 v0.6]

- Support for `\marginpar` added. See thread in [comp.text.tex](#):
“Using `\textcolor` and `\marginpar` together”³

[2005/07/09 v0.7]

- Output support added for memoir, provided by Lars Madsen.

[2006/02/20 v0.8]

- Code is not changed.
- DTX framework.

[2007/01/01 v1.0]

- If `pdftex.def` \geq 2007/01/01 v0.04a is used with pdfTeX \geq 1.40.0, then package `pdfcolmk` is obsolete.

[2007/04/11 v1.1]

- Line ends sanitized.

[2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

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³Url: <http://groups.google.com/group/comp.text.tex/msg/38ed58f8845a2a4f>

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