

Blank verso sides
without using the book style twoside option

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Last year I was involved in creating a small book (approximately 100 pages¹), and this year I did the L^AT_EXing of a small pamphlet (approximately 60 pages²). In both cases, the document needed to look like a book, but using all the built-in capabilities of the book class wasn't necessary. Therefore, I drafted my own class file (which, in the first case, Karl Berry significantly improved) and loaded that on top of the standard book class:

```
\documentclass{book}
\usepackage{ctssbook}
```

Naturally, the added style file included a macro, `\beginnewchapter`, which reset the various counters (such as footnote and figure numbers), formatted the chapter title, changed the running headings, and to put the chapter title in the table of contents using the command

```
\addcontentsline{toc}{chapter}
{\protect\fmttocnumber{\thechapter}#1}
```

where `#1` is the chapter title passed to the macro via the macro call (and `\fmttocnumber` is a macro that formats a right justified chapter number in a properly sized field).

Because the command `\chapter` is never given in the L^AT_EX for these two books, the two-side and one-side capabilities of the book style aren't available. This is not a problem. For a document that will be printed and needs to start new chapter on a recto side, it is easy enough (in the last stages of typesetting) to first perfect the page breaks: for this I typically use calls to macros such as

```
\newcommand{\Lpushlines}[1]
{\enlargethispage{-#1\baselineskip}}
\newcommand{\Lpulllines}[1]
{\enlargethispage{#1\baselineskip}}
```

And then, second, to go through the root file of the document and add a macro call (after the commands to input the content of chapter, frontmatter and backmatter files) to create the necessary blank verso sides where needed. This end-of-chapter macro definition is something like

¹Karl Berry and David Walden, editors, *T_EX's 2⁵ Anniversary: A Commemorative Collection*, T_EX Users Group, Portland, OR, 2010, <http://tug.org/store/tug10/>

²David Walden and Tom Van Vleck, editors, *Compatible Time-Sharing System (1961–1973): Fiftieth Anniversary Commemorative Overview*, IEEE Computer Society, Washinton, DC, 2011, <http://www.walden-family.com/ieee/ctss.pdf>

```

\def\EOC{\newpage

\null\thispagestyle{empty}\newpage
}

```

and the resulting root file looked as follows:

```

\documentclass{book}
\usepackage{ctssbook}
\begin{document}
\frontmatter
\include{title-pages}
\include{preface}
\mainmatter
\include{history}
\EOC
\include{toms-webpage-r1}
\EOC
\include{uses-r}
\include{views}
\EOC
\include{other}
\backmatter
\include{biblio}
\EOC
\input{colophon}
\EOC
\end{document}

```

In the pamphlet shown in this example, some chapters already end on verso sides and calls to `\EOC` are not needed. Also, the command `\tableofcontents` is included in the `title-pages` file; and, since the table of contents in this case is only one page long, it also includes a call of `\EOC`.

As I was finishing this pamphlet recently, I needed PDFs both for sending to the printer and for posting on the web. For the printer, there needed to be two PDFs: one PDF for the color cover (i.e., a single file of the back cover, spine, and front cover), and one PDF of the grayscale interior of the pamphlet including blank pages at the end of chapters as needed to start chapters on recto sides. For the web I needed a single PDF with the front and back covers at the beginning and end of the interior pages, and I decided I wanted to leave out blank verso sides of the interior but keep the same page numbers as in the print version.

Thus, I created a macro to conditionally add the covers to the interior and augmented the `\EOC` macro to add blank verso sides only when needed for the print version.

```

\def\Forweb{0} %0 = print
%\def\Forweb{1} %1 = web

\RequirePackage[final]{pdfpages}
\def\Covers#1{\ifodd\Forweb
\includepdf[pages=1-1]
{#1.pdf}\fi} %#1 is cover filenames

```

```

\RequirePackage{ifthen, changepage}
%if for web, increment page counter
%if for print, output blank page
\def\EOC{\newpage\checkoddpage
  \ifthenelse{\boolean{oddpage}}{}
  {\ifodd\Forweb\stepcounter{page}
  \else\null\thispagestyle{empty}
  \newpage\fi}}

```

Thus, I added `\Covers` macro calls bracketing the rest of the document as follows:

```

\begin{document}
\Covers{front-cover}
...
...
\Covers{back-cover}
\end{document}

```

I also then include a call to the revised `\EOC` macro after including *each* chapter, frontmatter, and backmatter file (the `title-pages` file already contained a call `\EOC`).