

The verbasef package*

VERBatim Automatic Splitting of External Files

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Requires:

- The New Font Selection Scheme (NFSS) as implemented in L^AT_EX 2_ε
- VERBATIM.STY by Rainer Schoepf
- VRBEXIN.STY by Paul Thompson
However, it is based on `vrinput.sty`, a style by Bernd Raichle which must be revised as discussed below in the section labeled “Important”
- HERE.STY by David Carlisle

`verbasef` allows you to input (subsections of a) file, print them in verbatim mode, while automatically breaking up the inputted lines into pieces of a given length, which are output as figures. These figures are posted using the `[H]` specification, which forces L^AT_EX to place the figure at the spot of invocation, rather than floating the figures to the top of the next page.

Options for the `verbasef` specification include:

- numbering of input lines
- differential number of lines for the first page
- specification of the font for the verbatim output
- specification of the font for the optional line numbering
- specification of line numbers as labels
To use the labelling feature, non-standard approaches must be used. A line number will be inserted into the main `.aux` file with label `foo`, if the specification

```
Vzzlabel|foo|
```

*This manual corresponds to `verbasef.sty` v1.1, dated 95/01/20.

is inserted *after* the line which is to be indicated. Thus, if we have a file with the following

```
a line
b line
Vzzlabel|fooa|
c line
Vzzlabel|foob|
d line
Vzzlabel|fooc|
e line
f line
Vzzlabel|food|
```

these lines will be found in the `.aux` file.

```
\newlabel{fooa}{{2}{1}}
\newlabel{foob}{{3}{1}}
\newlabel{fooc}{{4}{1}}
\newlabel{food}{{6}{1}}
```

They can be used as any other label, for instance

Using the labeling feature, pay attention to Line `\ref{food}` (found on Page `\pageref{food}`) to understand this radically new method.

Any lines with the `Vzzlabel` specification will be ignored in the line counts.

1 Using the style

`verbasef` is an adaptation of `VRBSUBFILE`, from Norman Walsh. I fully acknowledge Mr./Dr. Walsh as the imprimature of the code ensconced herein, but have included other features as indicated above.

Comments and suggestions always welcome.

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User interface:

`\VautoSubF[⟨#1⟩]⟨#2⟩⟨#3⟩⟨#4⟩⟨#5⟩⟨#6⟩` Input lines ⟨#2⟩ to ⟨#3⟩ of file ⟨#4⟩.

If present, ⟨#1⟩ indicates which lines should be numbered. For example, if ⟨#1⟩ is 5, lines 5, 10, 15, etc. will be numbered. By default, lines are not numbered at all. ⟨#5⟩ is figure caption, and ⟨#6⟩ is figure label.

`\autoSfFont[⟨#1⟩]⟨#2⟩` Use font ⟨#2⟩ for verbatim input lines and, if present, use font ⟨#1⟩ for line numbers. By default, ⟨#2⟩ is `\tt` and ⟨#1⟩ is `\rm\tiny`.

`\autoPl⟨#1⟩` Placement of the figure (either H or some other placement character) By default, placement is H (immediate here, `here.sty`) (This currently does not function. All placement is done using the H specification.)

`\autoLines[⟨#1⟩]⟨#2⟩` ⟨#2⟩ is number of lines per page. If ⟨#1⟩ is included, it is the number of lines for the first page. If not, ⟨#1⟩ = ⟨#2⟩

2 Important

In order to use the `verbasef.sty` file, `VRBINPUT.STY` must be *modified* and given a *new name*. Here are instructions for modification:

You must do *either* 1–4 below *or* 5 below to get `verbasef` to run properly.

1. Obtain `vrbinput.sty` from the standard distribution channels. The file should have the following characteristics:

```
\fileversion{v1.0b}
\filedate{91/06/30}
\docdate{91/08/05}
```

2. Copy `vrbinput.sty` to a file `vrbexin.sty`. *This must be done prior to editing any file.*
3. Edit the file `vrbexin.sty`. Please don't edit the file `vrbinput.sty`. Change Line 90 from `\verbatim@startline` to `\verbatim@start` as shown in the fragment of code from Lines 89–92 below.

```
\def\verbatim@readfile#1{%
  \verbatim@start
  \openin\verbatim@in@stream #1\relax
  \ifeof\verbatim@in@stream
```

4. *Very important.* Change all occurrences of `vrbinput`, in titles, typeout sections and credits to `vrbexin`. Remove all references to the original author, Bernd Raichle, as he is not the author of the style file `vrbexin`. You may substitute my name for Mr. Raichle if you wish.

5. Obtain `vrbin.sty` directly from the same subdirectory that `verbasef` was found in.
6. Place this `.sty` file in a place searched by \TeX , on the `TEXINPUT` path.

After I can figure out the `DOCSTRIP` utility, I will do this stuff myself.

Note: As is standard practice in the \TeX community, any modifications in `.sty` files must be given new names. Thus, it is certainly vitally important that the modifications in `vrbin.sty` be done in the file named `vrbin.sty`, not in the original which I did not write.