

# File not found error\*

Frank Mittelbach

June 14, 2016

This file is maintained by the L<sup>A</sup>T<sub>E</sub>X Project team.  
Bug reports can be opened (category `tools`) at  
<http://latex-project.org/bugs.html>.

## 1 Introduction

When L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> is unable to find a file it will ask for an alternative file name. However, sometimes the problem is only noticed by T<sub>E</sub>X, and in that case T<sub>E</sub>X insists on getting a valid file name; any other attempt to leave this error loop will fail.<sup>1</sup> Many users try to respond in the same way as to normal error messages, e.g. by typing `<return>`, or `s` or `x`, but T<sub>E</sub>X will interpret this as a file name and will ask again.

To provide a graceful exit out of this loop, we define a number of files which emulate the normal behavior of T<sub>E</sub>X in the error loop as far as possible.

After installing these files the user can respond with `h`, `q`, `r`, `s`, `e`, `x`, and on some systems also with `<return>` to T<sub>E</sub>X's missing file name question.

## 2 The documentation driver

This code will generate the documentation. Since it is the first piece of code in the file, the documentation can be obtained by simply processing this file with L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>.

```
1 <*driver>
2 \documentclass{ltxdoc}
3 \begin{document} \DocInput{fileerr.dtx} \end{document}
4 </driver>
```

## 3 The files

### 3.1 Asking for help with `h`

When the user types `h` in the file error loop T<sub>E</sub>X will look for the file `h.tex`. In this file we put a message informing the user about the situation (we use `^^J` to start

---

\*This file has version v1.1a last revised 2003/12/28

<sup>1</sup>On some systems, T<sub>E</sub>X accepts a special character denoting the end of file to return from this loop, e.g. Control-D on UNIX or Control-Z on DOS.

new lines in the message) and then finish with a normal `\errmessage` command thereby bringing up  $\text{\TeX}$ 's normal error mechanism.

```

5 <*help>
6 \newlinechar='\^^J
7 \message{! The file name provided could not be found.^^J%
8 Use '<enter>' to continue processing,^^J%
9 'S' to scroll future errors^^J%
10 'R' to run without stopping,^^J%
11 'Q' to run quietly,^^J%
12 or 'X' to terminate TeX}
13 \errmessage{}
14 </help>

```

### 3.2 Scrolling this and further errors with s

For the response `s` we put a message into the file `s.tex` and start `\scrollmode` to scroll further error messages in this run. On systems that allow `.tex` as a file name we can also trap a single `<return>` from the user.

```

15 <+scroll|return|run,batch> \message{File ignored}
16 <+scroll> \scrollmode
17 <+run> \nonstopmode
18 <+batch> \batchmode

```

### 3.3 Exiting the run with x or e

If the user enters `x` or `e` to stop  $\text{\TeX}$ , we need to put something into the corresponding file which will force  $\text{\TeX}$  to give up. We achieve this by turning off terminal output and then asking  $\text{\TeX}$  to stop: first by using the internal  $\text{\LaTeX}$  name `\@@end`, and if that doesn't work because something other than  $\text{\LaTeX}$  is used, by trying the  $\text{\TeX}$  primitive `\end`. The `\errmessage` is there to ensure that  $\text{\TeX}$ 's internal "history" variable is set to `error_message_issued`. This in turn will hopefully set the exit code on those operating systems that implement return codes (though there is no guarantee for this).

```

19 <+edit|exit> \batchmode \errmessage{}\csname @@end\endcsname \end

```

We end every file with an explicit `\endinput` which prevents the docstrip program from putting the character table into the generated files.

```

20 \endinput

```