

inputtrc.sty

Tracing Which File Loads Which*

Uwe Lück[†]

October 10, 2012

Abstract

inputtrc.sty produces screen/log messages ‘ $\langle current \rangle$ INPUTTING $\langle next \rangle$ ’ on L^AT_EX input commands, $\langle current \rangle$ and $\langle next \rangle$ being file names. The message indents reflect the input nesting level. This can be turned on and off, and the “indent unit” can be chosen. ‘RETURNING TO $\langle current \rangle$ ’ may be added. These messages should help especially when you otherwise get a screen message about ‘1. $\langle digits \rangle$ ’ referring to an input line while you have no idea in which *file* that line is.—The implementation somewhat resembles packages filehook, curfile, FiNK and inputfile.

Contents

1	Features and Usage	2
1.1	Installing, Calling, and Package Options	2
1.2	Input	2
1.3	After Input	3
2	What it is Good for	3
3	Example	4
4	Implementation	11
4.1	Package File Header (Legalese)	11
4.2	Core Definitions	11
4.3	Changing L ^A T _E X (Preparations)	12
4.4	The User Commands	12
4.5	Package Options	13
5	Coda	14

*This document describes version **v0.3** of inputtrc.sty as of 2012/10/10.

[†]<http://contact-ednotes.sty.de.vu>

1 Features and Usage

1.1 Installing, Calling, and Package Options

The file `inputtrc.sty` is provided ready, installation only requires putting it somewhere where \TeX finds it (which may need updating the filename data base).¹

After `\documentclass`, you may load `inputtrc` (as usually) by

```
\usepackage{inputtrc}
```

In order to use one of the package options that come with v0.3, you may type

```
\usepackage[⟨ir⟩]{inputtrc}
```

where $\langle ir \rangle$ is ‘i’, ‘r’, or ‘ir’ (—or ‘i,r’). However, you may want to see what `\documentclass` loads; then precede `\documentclass` with

```
\RequirePackage[⟨ir⟩]{inputtrc}
```

`[i]` issues `\dotracinginputs` immediately, `[r]` issues `\dotracingreturns` immediately, and `[ir]` issues `\dotracinginputsreturns` immediately. So ‘`[ir]`’ is like ‘`[i,r]`’.

1.2 Input

Indeed, the ‘INPUTTING’ messages appear after command `\dotracinginputs` only, *unless* you load the package with option `[i]` or `[ir]`. The command `\notracinginputs` turns the feature off again.

`\setinputindentunit{⟨cmds⟩}` globally sets the “indent unit,” whose default is set by

```
\setinputindentunit{\space\space}
```

in `inputtrc.sty`. By default, the indent for what the main file (to whose name `\jobname` expands—**TODO**: extension is not yet dealt with) loads is two spaces; each nesting level increases the indent by two more spaces, and the indent is reduced again when a loaded file is left. (**TODO**: not dealt with `\dotracinginputs` in other files yet, may need fink.) The first indent and the indent difference will be, e.g., *three* spaces if you insert

```
\setinputindentunit{\space\space\space}
```

Note that only $L\!A\!T\!E\!X$ input commands are recognized by `inputtrc.sty` (at present, **TODO**). This means that `\input` *without braces* is not recognized: it neither produces a message nor changes the indent, and with

```
\input_⟨file⟩
```

where $\langle file \rangle$ loads other files, files that $\langle file \rangle$ loads directly produce *wrong* messages.

¹<http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf>

1.3 After Input

`\dotracingreturns` adds a message

```
RETURNING_TO_<current> after <current>_INPUTTING_<next>
```

meaning that processing file `<next>` has been finished. The package issues this command immediately if called with option `[r]`. Use `\notracingreturns` to turn this additional feature off again.

`\dotracinginputsreturns` calls both

```
\dotracinginputs and \dotracingreturns
```

at (about) the same time. On package option `[ir]`, this command is issued immediately. `\notracinginputsreturns` switches off both kinds of messages.

2 What it is Good for

T_EX's primitive `'\input'` (that L^AT_EX represents as `\@@input`) sends a left round bracket to screen, followed by the path of the loaded file. When T_EX stops reading the file, a right round bracket is sent to screen. This screen log suffices to trace which files load which other files (directly). However, this has a quite little visual effect and hardly reflects input nesting in an intuitive way. And when an inputted file produces many messages, it becomes quite impossible to trace input nesting by eyes and mind only.

This may be very painful in debugging. Sometimes you get a warning or error message and you are unable to tell which file produced the message (if the file is not a L^AT_EX package issuing the proper *package* warnings and errors)²—typically the *number of the line* that caused the warning is shown, but not the *file name*.

Indeed on the texhax mailing list, *Karl Berry* posted the following:³

Sometimes it would be helpful for tex debugging to get a "backtrace" of the files that tex is executing. It could be something static, that reads a .log file (or maybe .fls file from -recorder) and reports on which files were opened and closed in some way that is readable for deep nesting.

I seem to recall that auctex and presumably front ends have dealt with extracting the filenames, at least, out of the mess of garbage printed to the terminal on a typical run, parsing all the open/close parens, but I've been unable to find anything that works as a separate utility.

Does anyone know of something to do this?

Failing anything else, I wonder about adding a new primitive to pdftex to dump the input stack at any point. Then we could get line numbers too, I expect.

²`\PackageWarning` etc.

³<http://tug.org/pipermail/texhax/2010-February/014305.html>

The subject line was “*tex filename backtrace utility*”.—Ronald Fehd joined:⁴

I am glad to see this suggestion as I have occasional problems identifying from which of my included files the error message is coming from.

and suggested using the programming language SAS.

Karl’s suggestion to filter the .log file would have the advantage over the present approach that information not relevant for input tracing would be stripped off. However, more in the direction addressed by Ronald Fehd, any message from a file may be wanted to be attributed to that file. The present approach should be helpful then, you just must read the log back to the last line containing ‘INPUTTING’—or to RETURNING TO (v0.2).

The present approach was inspired by Karl’s idea to provide a new T_EX primitive. This first triggered my reply⁵ claiming one could just redefine the primitive ‘\input’ as a macro—a little too optimistic. In the documentation for his FiNK package,⁶ Didier Verna remarks that this primitive parses the file name in a way that is somewhat difficult to imitate by macros:

(one would have to parse the characters one by one, and I’m not ready to do so...)

Instead, I here change two L^AT_EX macros that use the primitive.

3 Example

It is especially nice to watch hyperref loading quite a bunch from Heiko’s oberdiek bundle (on running the present inputtrc.tex):⁷

```
inputtrc.tex 2010/10/09 documenting inputtrc.sty
(./inputtrc.sty
Package: inputtrc 2010/10/09 v0.2 input tracing (UL)
)
inputtrc INPUTTING makedoc.sty
(/usr/share/texmf/tex/latex/nicetext/makedoc.sty
Package: makedoc 2010/03/30 v0.4 TeX input from *.sty (UL)

makedoc.sty INPUTTING fifinddo.sty
(/usr/share/texmf/tex/latex/nicetext/fifinddo.sty
Package: fifinddo 2010/04/15 v0.41 filtering TeX(t) files by TeX (UL)
\result_file=\write3
\c@fdInputLine=\count79
)
RETURNING TO makedoc.sty
)
RETURNING TO inputtrc
```

⁴<http://tug.org/pipermail/texhax/2010-February/014311.html>

⁵<http://tug.org/pipermail/texhax/2010-February/014309.html>

⁶<http://ctan.org/pkg/fink>

⁷<http://ctan.org/pkg/oberdiek>

```

inputtrc INPUTTING mdoccorr.cfg
(/usr/share/texmf/tex/latex/nicetext/mdoccorr.cfg
File: mdoccorr.cfg 2010/03/29 local typographical corrections with 'makedoc.sty
,
)
RETURNING TO inputtrc
\openout3 = 'inputtrc.doc'.

'fifinddo' processing 'inputtrc.sty'
inputtrc INPUTTING article.cls
(/usr/share/texmf/tex/latex/base/article.cls
Document Class: article 2005/09/16 v1.4f Standard LaTeX document class
article.cls INPUTTING size10.clo
(/usr/share/texmf/tex/latex/base/size10.clo
File: size10.clo 2005/09/16 v1.4f Standard LaTeX file (size option)
)
RETURNING TO article.cls
\c@part=\count80
\c@section=\count81
\c@subsection=\count82
\c@subsubsection=\count83
\c@paragraph=\count84
\c@subparagraph=\count85
\c@figure=\count86
\c@table=\count87
\abovecaptionskip=\skip41
\belowcaptionskip=\skip42
\bibindent=\dimen102
)
RETURNING TO inputtrc
inputtrc INPUTTING makedoc.cfg
(./makedoc.cfg
File: makedoc.cfg 2010/10/08 doc formatting settings

makedoc.cfg INPUTTING ifpdf.sty
(/usr/share/texmf/tex/generic/oberdiek/ifpdf.sty
Package: ifpdf 2009/04/10 v2.0 Provides the ifpdf switch (HO)
Package ifpdf Info: pdfTeX in pdf mode not detected.
)
RETURNING TO makedoc.cfg
makedoc.cfg INPUTTING hyperref.sty
(/usr/share/texmf/tex/latex/hyperref/hyperref.sty
Package: hyperref 2010/06/18 v6.81g Hypertext links for LaTeX

hyperref.sty INPUTTING ltxcmds.sty
(/usr/share/texmf/tex/latex/oberdiek/ltxcmds.sty
Package: ltxcmds 2010/04/26 v1.7 LaTeX kernel commands for general use (HO)
)
RETURNING TO hyperref.sty
hyperref.sty INPUTTING keyval.sty

```

```

(/usr/share/texmf/tex/latex/graphics/keyval.sty
Package: keyval 1999/03/16 v1.13 key=value parser (DPC)
\KV@toks@=\toks14
)
    RETURNING TO hyperref.sty
    hyperref.sty INPUTTING kvsetkeys.sty
(/usr/share/texmf/tex/generic/oberdiek/kvsetkeys.sty
Package: kvsetkeys 2007/09/29 v1.3 Key value parser with default handler support (HO)

    kvsetkeys.sty INPUTTING infwarerr.sty
(/usr/share/texmf/tex/generic/oberdiek/infwarerr.sty
Package: infwarerr 2007/09/09 v1.2 Providing info/warning/message (HO)
)
    RETURNING TO kvsetkeys.sty
    kvsetkeys.sty INPUTTING etexcmds.sty
(/usr/share/texmf/tex/generic/oberdiek/etexcmds.sty
Package: etexcmds 2007/12/12 v1.2 Prefix for e-TeX command names (HO)
Package etexcmds Info: Could not find \expanded.
(etexcmds)          That can mean that you are not using pdfTeX 1.50 or
(etexcmds)          that some package has redefined \expanded.
(etexcmds)          In the latter case, load this package earlier.
)
    RETURNING TO kvsetkeys.sty
)
    RETURNING TO hyperref.sty
    hyperref.sty INPUTTING pdfescape.sty
(/usr/share/texmf/tex/generic/oberdiek/pdfescape.sty
Package: pdfescape 2007/11/11 v1.8 Provides hex, PDF name and string conversions (HO)

    pdfescape.sty INPUTTING pdftexcmds.sty
(/usr/share/texmf/tex/generic/oberdiek/pdftexcmds.sty
Package: pdftexcmds 2009/04/10 v0.4 LuaTeX support for pdfTeX utility functions (HO)

    pdftexcmds.sty INPUTTING ifluatex.sty
(/usr/share/texmf/tex/generic/oberdiek/ifluatex.sty
Package: ifluatex 2009/04/10 v1.1 Provides the ifluatex switch (HO)
Package ifluatex Info: LuaTeX not detected.
)
    RETURNING TO pdftexcmds.sty
Package pdftexcmds Info: LuaTeX not detected on input line 145.
)
    RETURNING TO pdfescape.sty
)
    RETURNING TO hyperref.sty
    hyperref.sty INPUTTING ifvtex.sty
(/usr/share/texmf/tex/generic/oberdiek/ifvtex.sty
Package: ifvtex 2008/11/04 v1.4 Switches for detecting VTeX and its modes (HO)

```

```

Package ifvtex Info: VTeX not detected.
)
  RETURNING TO hyperref.sty
  hyperref.sty INPUTTING ifxetex.sty
(/usr/share/texmf/tex/generic/ifxetex/ifxetex.sty
Package: ifxetex 2010/09/12 v0.6 Provides ifxetex conditional
)
  RETURNING TO hyperref.sty
  hyperref.sty INPUTTING hycolor.sty
(/usr/share/texmf/tex/latex/oberdiek/hycolor.sty
Package: hycolor 2008/09/08 v1.4 Code for color options of hyperref/bookmark (H
0)

  hycolor.sty INPUTTING xcolor-patch.sty
(/usr/share/texmf/tex/latex/oberdiek/xcolor-patch.sty
Package: xcolor-patch 2008/09/08 xcolor patch
)
  RETURNING TO hycolor.sty
)
  RETURNING TO hyperref.sty
  hyperref.sty INPUTTING letltxmacro.sty
(/usr/share/texmf/tex/latex/oberdiek/letltxmacro.sty
Package: letltxmacro 2008/06/24 v1.3 Let assignment for LaTeX macros (HO)
)
  RETURNING TO hyperref.sty
\@linkdim=\dimen103
\Hy@linkcounter=\count88
\Hy@pagecounter=\count89
  hyperref.sty INPUTTING pdlenc.def
(/usr/share/texmf/tex/latex/hyperref/pdlenc.def
File: pdlenc.def 2010/06/18 v6.81g Hyperref: PDFDocEncoding definition (HO)
)
  RETURNING TO hyperref.sty
  hyperref.sty INPUTTING intcalc.sty
(/usr/share/texmf/tex/generic/oberdiek/intcalc.sty
Package: intcalc 2007/09/27 v1.1 Expandable integer calculations (HO)
)
  RETURNING TO hyperref.sty
  hyperref.sty INPUTTING hyperref.cfg
(/usr/share/texmf/tex/latex/config/hyperref.cfg
File: hyperref.cfg 2002/06/06 v1.2 hyperref configuration of TeXLive
)
  RETURNING TO hyperref.sty
  hyperref.sty INPUTTING kvoptions.sty
(/usr/share/texmf/tex/latex/oberdiek/kvoptions.sty
Package: kvoptions 2010/02/22 v3.7 Keyval support for LaTeX options (HO)
)
  RETURNING TO hyperref.sty
Package hyperref Info: Option 'draft' set 'true' on input line 3577.
Package hyperref Info: Hyper figures OFF on input line 3658.

```

```

Package hyperref Info: Link nesting OFF on input line 3663.
Package hyperref Info: Hyper index ON on input line 3666.
Package hyperref Info: Plain pages OFF on input line 3673.
Package hyperref Info: Backreferencing OFF on input line 3678.
Implicit mode ON; LaTeX internals redefined
Package hyperref Info: Bookmarks ON on input line 3874.
  hyperref.sty INPUTTING url.sty
(/usr/share/texmf/tex/latex/ltxmisc/url.sty
\Uurlmuskip=\muskip10
Package: url 2005/06/27 ver 3.2 Verb mode for urls, etc.
)
  RETURNING TO hyperref.sty
LaTeX Info: Redefining \url on input line 4159.
  hyperref.sty INPUTTING bitset.sty
(/usr/share/texmf/tex/generic/oberdiek/bitset.sty
Package: bitset 2007/09/28 v1.0 Data type bit set (HO)

  bitset.sty INPUTTING bigintcalc.sty
(/usr/share/texmf/tex/generic/oberdiek/bigintcalc.sty
Package: bigintcalc 2007/11/11 v1.1 Expandable big integer calculations (HO)
)
  RETURNING TO bitset.sty
)
  RETURNING TO hyperref.sty
\Fld@menulength=\count90
\Field@Width=\dimen104
\Fld@charsize=\dimen105
\Field@toks=\toks15
Package hyperref Info: Hyper figures OFF on input line 5137.
Package hyperref Info: Link nesting OFF on input line 5142.
Package hyperref Info: Hyper index ON on input line 5145.
Package hyperref Info: backreferencing OFF on input line 5152.
Package hyperref Info: Link coloring OFF on input line 5157.
Package hyperref Info: Link coloring with OCG OFF on input line 5162.
Package hyperref Info: PDF/A mode OFF on input line 5167.
LaTeX Info: Redefining \ref on input line 5207.
LaTeX Info: Redefining \pageref on input line 5211.
  hyperref.sty INPUTTING atbegshi.sty
(/usr/share/texmf/tex/generic/oberdiek/atbegshi.sty
Package: atbegshi 2008/07/31 v1.9 At begin shipout hook (HO)
)
  RETURNING TO hyperref.sty
\Hy@abspage=\count91
\c@Item=\count92
\c@Hfootnote=\count93
)
  RETURNING TO makedoc.cfg
* hyperref using default driver hdvips *
  makedoc.cfg INPUTTING hdvips.def
(/usr/share/texmf/tex/latex/hyperref/hdvips.def

```


File: hdvips.def 2010/06/18 v6.81g Hyperref driver for dvips

```

    hdvips.def INPUTTING pdfmark.def
(/usr/share/texmf/tex/latex/hyperref/pdfmark.def
File: pdfmark.def 2010/06/18 v6.81g Hyperref definitions for pdfmark specials
\pdf@docset=\toks16
\pdf@box=\box26
\pdf@toks=\toks17
\pdf@defaulttoks=\toks18
\Fld@listcount=\count94
\c@bookmark@seq@number=\count95

    pdfmark.def INPUTTING rerunfilecheck.sty
(/usr/share/texmf/tex/latex/oberdiek/rerunfilecheck.sty
Package: rerunfilecheck 2010/03/16 v1.6 Rerun checks for auxiliary files (HO)

    rerunfilecheck.sty INPUTTING atveryend.sty
(/usr/share/texmf/tex/latex/oberdiek/atveryend.sty
Package: atveryend 2010/03/24 v1.5 Hooks at very end of document (HO)
Package atveryend Info: \enddocument detected (standard).
)

    RETURNING TO rerunfilecheck.sty
    rerunfilecheck.sty INPUTTING uniquecounter.sty
(/usr/share/texmf/tex/latex/oberdiek/uniquecounter.sty
Package: uniquecounter 2009/12/18 v1.1 Provides unlimited unique counter (HO)
)

    RETURNING TO rerunfilecheck.sty
Package uniquecounter Info: New unique counter 'rerunfilecheck' on input line 2
71.
)

    RETURNING TO pdfmark.def
\Hy@SectionHShift=\skip43
)

    RETURNING TO hdvips.def
)

    RETURNING TO makedoc.cfg
makedoc.cfg INPUTTING niceverb.sty
(/usr/share/texmf/tex/latex/nicetext/niceverb.sty
Package: niceverb 2010/04/05 v0.41 minimize doc markup (UL)
\niceverb_savebox=\box27
)

    RETURNING TO makedoc.cfg
)

    RETURNING TO inputtrc
inputtrc INPUTTING inputtrc.aux
(./inputtrc.aux)
    RETURNING TO inputtrc
\openout1 = 'inputtrc.aux'.

LaTeX Font Info:    Checking defaults for OML/cmm/m/it on input line 13.

```

```

LaTeX Font Info: ... okay on input line 13.
LaTeX Font Info: Checking defaults for T1/cmr/m/n on input line 13.
LaTeX Font Info: ... okay on input line 13.
LaTeX Font Info: Checking defaults for OT1/cmr/m/n on input line 13.
LaTeX Font Info: ... okay on input line 13.
LaTeX Font Info: Checking defaults for OMS/cmsy/m/n on input line 13.
LaTeX Font Info: ... okay on input line 13.
LaTeX Font Info: Checking defaults for OMX/cmex/m/n on input line 13.
LaTeX Font Info: ... okay on input line 13.
LaTeX Font Info: Checking defaults for U/cmr/m/n on input line 13.
LaTeX Font Info: ... okay on input line 13.
LaTeX Font Info: Checking defaults for PD1/pdf/m/n on input line 13.
LaTeX Font Info: ... okay on input line 13.
inputtrc INPUTTING moreverb.sty
(/usr/share/texmf/tex/latex/moreverb/moreverb.sty
Package: moreverb 1997/12/07 v2.2d.2 'more' verbatim facilities

    moreverb.sty INPUTTING verbatim.sty
(/usr/share/texmf/tex/latex/tools/verbatim.sty
Package: verbatim 2003/08/22 v1.5q LaTeX2e package for verbatim enhancements
\every@verbatim=\toks19
\verbatim@line=\toks20
\verbatim@in@stream=\read1
)
    RETURNING TO moreverb.sty
\verbatim@out=\write4
\tab@position=\count96
\tab@size=\count97
\listing@line=\count98
)
    RETURNING TO inputtrc
\AtBeginShipoutBox=\box28

Package hyperref Warning: draft mode on.

Package hyperref Info: Link coloring OFF on input line 13.
inputtrc INPUTTING nameref.sty
(/usr/share/texmf/tex/latex/hyperref/nameref.sty
Package: nameref 2010/04/30 v2.40 Cross-referencing by name of section

    nameref.sty INPUTTING refcount.sty
(/usr/share/texmf/tex/latex/oberdiek/refcount.sty
Package: refcount 2008/08/11 v3.1 Data extraction from references (HO)
)
    RETURNING TO nameref.sty
    nameref.sty INPUTTING gettitlestring.sty
(/usr/share/texmf/tex/latex/oberdiek/gettitlestring.sty
Package: gettitlestring 2009/12/18 v1.3 Cleanup title references (HO)
)
    RETURNING TO nameref.sty

```

```

\c@section@level=\count99
)
RETURNING TO inputtrc

```

4 Implementation

4.1 Package File Header (Legalese)

```

1 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2 \ProvidesPackage{inputtrc}[2012/10/10 v0.3 input tracing (UL)]
3
4 %% Copyright (C) 2010 2011 2012 Uwe Lueck,
5 %% http://www.contact-ednotes.sty.de.vu
6 %% -- author-maintained in the sense of LPPL below --
7 %%
8 %% This file can be redistributed and/or modified under
9 %% the terms of the LaTeX Project Public License; either
10 %% version 1.3c of the License, or any later version.
11 %% The latest version of this license is in
12 %% http://www.latex-project.org/lppl.txt
13 %% We did our best to help you, but there is NO WARRANTY.
14 %%
15 %% Please report bugs, problems, and suggestions via
16 %%
17 %% http://www.contact-ednotes.sty.de.vu
18 %%

```

4.2 Core Definitions

Initializations of indent, current filename, and filename stack:

```

19 \gdef\IT@indent{\IT@indent@unit}
20 \xdef\IT@currfile{\jobname\space}
... TODO: add .tex unless ...
21 \xdef\IT@filestack{\relax}
... \relax saves braces around job file name when the file stack is unbuilt.
   \IT@prim@input{<file>} will replace LATEX's \@@input (at certain places,
   see below).
22 \newcommand*{\IT@prim@input}[1]{%
23   \typeout{\IT@indent\IT@currfile INPUTTING #1}%
... TODO: option to write to .log only.
24   \xdef\IT@filestack{{\IT@currfile}\IT@filestack}%
25   \xdef\IT@currfile{#1}%
26   \expandafter \gdef\expandafter \IT@indent\expandafter{%

```

```

27     \IT@indent \IT@indent@unit}
28     \@@input#1
29     \expandafter\IT@pop@indent\IT@indent \@nil
30     \expandafter\IT@pop@file \IT@filestack\@nil
31     \IT@maybe@returnmessage           %% v0.2
32 }
33 \def\IT@pop@indent#1#2\@nil{\gdef\IT@indent{#2}}
34 \def\IT@pop@file #1#2\@nil{%
35     \gdef\IT@currfile{#1}\gdef\IT@filestack{#2}}

```

... cf. LaTeX's `\@pushfilename/\@popfilename`.

```

36 \newcommand*\IT@the@returnmessage}{%           %% v0.2
37     \typeout{\IT@indent RETURNING TO \IT@currfile}}

```

... the “active” version of `\IT@maybe@returnmessage`, see below ...

4.3 Changing L^AT_EX (Preparations)

Changing L^AT_EX's `\@@input` (that stores T_EX's primitive `\input`) is not easy (cf. Didier Verna on his `fink` package,⁸ also `inputfile`); but it should suffice to change two of the three L^AT_EX commands that use `\@@input`:

```

38 \newcommand\IT@InputIfFileExists[2]{%
39     \IfFileExists{#1}%
40     {#2\@addtofilelist{#1}\IT@prim@input\@file@und}}

```

... L^AT_EX's version is `\long`, as opposed to `\@input`:

```

41 \newcommand*\IT@input}[1]{%
42     \IfFileExists{#1}{\IT@prim@input\@file@und}%
43     {\typeout{No file #1.}}}

```

... the third macro using `\@@input` is `\input`—too difficult for now.

Storing original L^AT_EX:

```

44 \let\IT@ltx@InputIfFileExists\InputIfFileExists
45 \let\IT@ltx@input\@input

```

4.4 The User Commands

`\dotracinginputs` globally activates input tracing:

```

46 \newcommand*\dotracinginputs{%
47     \global \let \InputIfFileExists \IT@InputIfFileExists
48     \global \let \@input \IT@input}

```

`\notracinginputs` globally turns input tracing off:

⁸<http://ctan.org/pkg/fink>

```

49 \newcommand*\notracinginputs}{%
50     \global \let \InputIfFileExists \IT@ltx@InputIfFileExists
51     \global \let \@input          \IT@ltx@input}

```

`\setinputindentunit{<cmds>}` globally sets the “indent unit”—the default setting is `<cmds> = \space\space`:

```

52 \newcommand*\setinputindentunit}{\gdef\IT@indent@unit}
53 \setinputindentunit{\space\space}

```

`\dotracingreturns` activates the RETURNING TO message—

```

54 \newcommand*\dotracingreturns}{%
55     \global \let \IT@maybe@returnmessage \IT@the@returnmessage}

```

—`\notracingreturns` turns it off—

```

56 \newcommand*\notracingreturns}{%
57     \global \let \IT@maybe@returnmessage \relax}

```

—*not* activated is the default:

```

58 \notracingreturns

```

`\dotracinginputsreturns` activates *both* INPUTTING and RETURNING messages:

```

59 \newcommand*\dotracinginputsreturns}{%
60     \dotracinginputs \dotracingreturns}

```

`\notracinginputsreturns` turns off *both* INPUTTING and RETURNING messages:

```

61 \newcommand*\notracinginputsreturns}{%
62     \notracinginputs \notracingreturns}

```

4.5 Package Options

Package Option `[i]` issues `\dotracinginputs` immediately after loading the package:

```

63 \DeclareOption{i}{\dotracinginputs}

```

Package Option `[r]` issues `\dotracingreturns` immediately after loading the package:

```

64 \DeclareOption{r}{\dotracingreturns}

```

Package Option `[ir]` *combines* the functionality of options `[i]` and `[r]`:

```

65 \DeclareOption{ir}{\dotracinginputs\dotracingreturns}
66 \ProcessOptions
67 \endinput

```

5 Coda

You can't overestimate my pride! *That's one small step for a man—one giant leap for $T_{E}X$ kind.*

On the other hand, I probably exhausted the set of possible trials and errors (becoming euphoric when it suddenly worked).

Dedicated to Koppa Aleph Rio Lord.

Worms-Pfeddersheim 2010/10/08, U. L.

```

68 HISTORY
69
70 v0.1 2010/10/08 very first, installed on CTAN same day
71 v0.1a 2010/10/08 doc corrected: LaTeX commands using \@input;
72 manual page breaks -- installed on CTAN 2010/10/09
73 v0.2 2010/10/09 \IT@maybe@returnmessage etc.
74 v0.2a 2010/11/11 updated LPPL version
75 v0.3 2012/10/03 \dotracingreturns corrected, [i], [r];
76 updated (C)
77 2012/10/10 correcting doc. on options, three of them,
78 \notracinginputsreturns
79

```