The askinclude package

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Abstract

This package replaces `\includeonly` by an interactive user interface.

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1 Documentation

1.1 User interface

The `\include` feature of LaTeX allows the division of the text body in separate compilation units. It is page based and stores counter settings in additional auxiliary files. `\includeonly` limits the actually included files to the ones, listed in its argument.

Example:

```
\documentclass{report}

\usepackage{askinclude}

 % Don't use \include in the preamble.
 % Instead \input can be used or make a package

\begin{document}
\include{title}
\include{introduction}
\include{summary}
\include{index}
\end{document}
```

Package askinclude adds an interactive user interface. The user is asked which files he want to include and sets `\includeonly` accordingly.

The first time the package is used the question looks like:

```
**********************************
*** Package askinclude Question ***
**********************************

Previous answer (noregexp):
     [*]

Regular expressions:
 --> [noregexp]  disabled
     [makematch] enabled, using package ‘makematch’
     [pdfmatch]  enabled, using pdfTeX’s \pdfmatch

Which files do you want to include?
     [foo,bar]   comma separated file or pattern list
     [*]         all files
     [-]         no files
     [?]         ask for each file
     []          use the previous answer

\answer=chapter2,summary
```

Square brackets are used as quotation symbols, they are not part of the answer. The answer by the user follows in the last line after `\answer=`.

[foo,bar]: A comma separated file list (also one file only) is passed to macro `\includeonly` directly. If regular expression support is enabled, the entries in the list are interpreted as file name patterns that will be matched against the file names in `\include`, see section 1.3.

[*]: This is a shortcut for specifying *all* files.

[-]: This means *none* of the files is included.

[?]: The switches in single asking mode. The user will be asked at each `\include`. See section section 1.2.

[]: Just pressing return (empty string) uses the default answer, that was stored in the auxiliary file (`.aux`) of the previous LaTeXrun with package askinclude. Without previous runs the default is [*] for all files.

[noregexp]: Turns regular expression support off.

[makematch]: Enables regular expression support package makematch provides.

[pdfmatch]: It is shown, if pdfTeX 1.30 or later is used. It relies on an undocumented feature `\pdfmatch` that may change in future versions of pdfTeX.

Package askinclude remembers the files of `\include` in the auxiliary file and the given answer. they are presented at the next run at the start of the question:

```
**********************************
*** Package askinclude Question ***
**********************************

Files, found by previous run in \include:
     (-) title
     (-) introduction
     (-) chapter1
     (+) chapter2
     (-) chapter3
     (+) summary

Previous answer (noregexp):
     [chapter2,summary]
...
```

(+) and (-) marks files that were and were not included in the previous run. The file list and marks are not always correct. For example, if \include statements are added or removed. If the method of regular expression support is different, then the marks only reflects the mode of the previous answer.

1.2 Single asking mode

The special answer '?' trigger single asking mode, at the next \include the user is asked again:

```
**********************************
*** Package askinclude Question ***
**********************************

Include 'title'? [y]es, [n]o, [A]ll, [N]one, [D]efault (n):

\answer=
```

Use the letter inside the square brackets as answer. An empty string uses the default answer, the letter in parentheses. The answers are:

[y]: The file is included.

[n]: The file is excluded.

[A]: This file and all following files are included.

[N]: This file and all following files are excluded.

[D]: Use the default answer for this and all following files.

If the file is known from the previous run, then the default is 'y' or 'n' corresponding to the mark '(+)' or '(-)' in the list of previous files. Otherwise 'y' is used as default.

1.3 Regular expressions

Three methods are available that can also set by package options:

noregexp: Regular expression support is disabled.

makematch: Use package makematch.

pdfmatch: Use pdfTeX's \pdfmatch if available.

Without options the value remembered in the auxiliary file is used, otherwise the default is noregexp.

1.3.1 Method makematch

Package makematch (part of qstest), written by David Kastrup provides pattern matching based on wildcards:

[*]: The star matches zero or more characters. Thus a lonely star machtes anything.

[!]: The exclamation mark at the begin of a pattern negates it, thus the matching files are excluded.

The pattern list is evaluated for a file name from left to right. Always a file name must match the whole pattern. The file is included if it is matched by a pattern and not excluded afterwards. Examples:

Pattern list	File names	Result
foobar	foobar,dummy	foobar
foo*	foobar,xfoobar	foobar
foo	xfoobar	xfoobar
f*b*r	foobar	foobar
*	any	any
!foobar	foobar,other	other
!foo*	xfoobar	xfoobar
in*,!*dex	intro,index	intro
!index,in*	intro,index	intro,index
*,!chap2	chap1,chap2,chap3	chap1,chap3

The example in the last line shows, how the behaviour of package excludeonly [4] can be simulated.

The documentation of package makematch tells the the empty pattern does not match anything. But if you answer the question with an empty string the answer of the previous run is used. Also curly braces are not reliable because the can get stripped during the processing of the answer. Using a pair of empty curly braces or the comma for two empty patterns currently works, but this is specific for the current implementation and may change in future. But the special answer '-' is available.

1.3.2 Method pdfmatch

In pdfTEX 1.30 the new primitive \pdfmatch was introduced. It is not documented yet, because it was not decided if it remains and which implementation of regular expressions should be used. Thus the situation may change in later versions of pdfTEX. Currently (1.30 until 1.40) it uses a library for POSIX 1003.2 regular expressions, see manual page "regex(7)".

If a pattern in the pattern list is invalid, the package prints a warning and removes the pattern from the list. Actually there are two warnings, the other warning is generated by pdfTEX itself.

In opposite to makematch the pattern only needs to match the specified part of the file name. For matching the whole name, the symbols '^' and '$' for begin and end of string must be included.

Additionally an initial exclamation mark '!' implements the same logic as method makematch. The match result is inverted, the matched file excluded.

Examples:

Pattern list	File names	Result
foobar	foobar,dummy	foobar
foo.*	foobar,xfoobar	foobar,xfoobar
^foo.*	foobar,xfoobar	foobar
foo$	foo,foobar	foo
fo?bar	fbar,fobar,foobar	fbar,fobar
fo+bar	fbar,fobar,foobar	fobar,foobar
fo*bar	fbar,fobar,foobar	fbar,fobar,foobar
chap3	chap3,chap32	chap1,chap3,chap32
chap[13]	chap1,chap2,chap3	chap1,chap3
chap(1|3)$	chap1,chap3,chap33	chap1,chap3
.*	any	any
!foobar	foobar,other	other
in.*,!dex	intro,index	intro
!index,in.*	intro,index	intro,index
.*,!chap2	chap1,chap2,chap3	chap1,chap3
.*,!bla	foo,bla,blabla	foo
.*,!^bla$	foo,bla,blabla	foo,blabla

The example in the last line shows, how the behaviour of package excludeonly [4]

can be simulated. As the third last line shows, that sometimes '^' and '$' can be omitted, but this will not work always, shown in the second last line.

1.4 History

Package askinclude was invented by Pablo A. Straub in 1991 and maintained until 1994.

In October 2007 it was removed from "TeX Live" because of the no-commercial license [1]. Herbert Voß initiated a search for the author in the newsgroup comp.text.tex [2] to ask him to change the license.

It seems that the author could not be reached any more. Joseph Wright suggested a reimplementation that I (HO) have done as package askinc. Soon it was enhanced by feature requests.

Then Ulrike Fischer found email addresses of the original author and Jim Hefferon succeeded in contacting him. He allowed a change of the license to LPPL and the transfer of the maintainership to someone else.

Thus I merged both packages as askinclude in a new major version 2. The license is LPPL.

1.5 New features of version 2

- License is now LPPL.
- A list of `\include` files that are detected by the previous run is printed before the question.
- If the special answer '`?`' is given, then the user is asked at each `\include`.
- Support for regular expressions.
- The remaining stuff in the `.aux` file does not cause errors, if the package is removed.
- The use of `\includeonly` before the package loading time is detected and respected by taking precedence. After the package is loaded, `\includeonly` is disabled and prints a warning.

1.6 Compatibility to version 1

- The user interface of version 1 with its special answers '`*`', '`-`', and '' remain unchanged, but it is extended by version 2 with the special answer '`?`' and support for regular expressions can be enabled.
- As reimplementation the internal macros have changed of course.
- `.aux` files that are written by version 1.x will work with version 2.x because `\@includeonly` is recognized.
- LaTeX 2.09: The package works as `\documentstyle` option in compatibility mode of LaTeX 2_ε. It is possible that it will not work in pure LaTeX 2.09.

2 Implementation

2.1 Header and catcodes

```
1 ⟨*package⟩
2 \NeedsTeXFormat{LaTeX2e}
3 \begingroup\catcode61\catcode48\catcode32=10\relax%
4   \catcode13=5 % ^^M
5   \endlinechar=13 %
6   \catcode123=1 % {
```

```
  \catcode125=2 % }
  \catcode64=11 % @
  \def\x{\endgroup
    \expandafter\edef\csname AskInc@AtEnd\endcsname{%
      \endlinechar=\the\endlinechar\relax
      \catcode13=\the\catcode13\relax
      \catcode32=\the\catcode32\relax
      \catcode35=\the\catcode35\relax
      \catcode61=\the\catcode61\relax
      \catcode64=\the\catcode64\relax
      \catcode123=\the\catcode123\relax
      \catcode125=\the\catcode125\relax
    }%
  }%
\x\catcode61\catcode48\catcode32=10\relax%
\catcode13=5 % ^^M
\endlinechar=13 %
\catcode35=6 % #
\catcode64=11 % @
\catcode123=1 % {
\catcode125=2 % }
\def\TMP@EnsureCode#1#2{%
  \edef\AskInc@AtEnd{%
    \AskInc@AtEnd
    \catcode#1=\the\catcode#1\relax
  }%
  \catcode#1=#2\relax
}
\TMP@EnsureCode{33}{12}% !
\TMP@EnsureCode{39}{12}% '
\TMP@EnsureCode{40}{12}% (
\TMP@EnsureCode{41}{12}% )
\TMP@EnsureCode{42}{12}% *
\TMP@EnsureCode{43}{12}% +
\TMP@EnsureCode{44}{12}% ,
\TMP@EnsureCode{45}{12}% -
\TMP@EnsureCode{46}{12}% .
\TMP@EnsureCode{47}{12}% /
\TMP@EnsureCode{58}{12}% :
\TMP@EnsureCode{62}{12}% >
\TMP@EnsureCode{63}{12}% ?
\TMP@EnsureCode{91}{12}% [
\TMP@EnsureCode{93}{12}% ]
\TMP@EnsureCode{96}{12}% `
\edef\AskInc@AtEnd{\AskInc@AtEnd\noexpand\endinput}
\ProvidesPackage{askinclude}%
  [2008/08/11 v2.1 Interactive asking of included files]%
```

2.2 Delay action after preamble

`\AskInc@AtBeginDocument`

Some actions such as `.aux` file writing cannot be performed in the preamble. `\AtBeginDocument` delays such action until `\begin{document}`. However `\AtBeginDocument` must not be used after that time (`\@onlypreamble`). Thus `\AskInc@AtBeginDocument` uses `\AtBeginDocument` in the preamble and afterwards executes the code immediately.

```
\AtBeginDocument{%
  \let\AskInc@AtBeginDocument\@firstofone
}
\providecommand*{\AskInc@AtBeginDocument}{\AtBeginDocument}
```

2.3 Write entry in .aux file

\AskInc@WriteAux The first argument is written to the main .aux file and the second argument is executed if writing was possible. Remember \nofiles prevents writing to auxiliary files.

```
\def\AskInc@WriteAux#1#2{%
  \AskInc@AtBeginDocument{%
    \if@filesw
      \immediate\write\@mainaux{#1}%
      #2%
    \fi
  }%
}
```

2.4 Remember \include files

\AskInc@CharHash

```
\edef\AskInc@CharHash{\string#}
```

\AskInc@WriteDefAddList

```
\def\AskInc@WriteDefAddList{%
  \AskInc@WriteAux{%
```

\AskInc@AddList

```
    \string\providecommand*\string\AskInc@AddList[2]{%
      \string\ifcase\string\ifx\AskInc@CharHash1\string\@undefined
                    \string\else
                      \string\ifx\AskInc@CharHash1\string\relax
                      \string\else
                        \string\ifx\AskInc@CharHash1\string\@empty
                        \string\else
                          1%
                        \string\fi
                      \string\fi
                    \string\fi
                    0 %
        \string\gdef\AskInc@CharHash1{\AskInc@CharHash2}%
      \string\else
        \string\g@addto@macro\AskInc@CharHash1{,\AskInc@CharHash2}%
      \string\fi
    }%

  }{%
    \global\let\AskInc@WriteDefAddList\relax
  }%
}
```

\AskInc@WriteDefAddFile

```
\def\AskInc@WriteDefAddFile{%
  \AskInc@WriteDefAddList
  \AskInc@WriteAux{%
```

\AskInc@AddFile

```
    \string\providecommand\string\AskInc@AddFile{%
      \string\AskInc@AddList\string\AskInc@Files
    }%

  }{%
    \global\let\AskInc@WriteDefAddFile\relax
  }%
}
```

\AskInc@AddFile

```
\AtBeginDocument{%
  \global\let\AskInc@AddFile\@gobble
}
```

\AskInc@WriteAddFile

```
\def\AskInc@WriteAddFile#1{%
  \AskInc@WriteDefAddFile
  \AskInc@WriteAux{%
    \string\AskInc@AddFile{#1}%
  }{}%
}
```

\AskInc@Files

```
\providecommand*{\AskInc@Files}{}
```

Summary: Now `\AskInc@Files` is always defined and either empty or contains a comma separated list of `\include` files of previous run.

The `\include` files are remembered by using `\AskInc@WriteAddFile` at each `\include`.

2.5 Redefine `\include`

\AskInc@OrgInclude

```
\newcommand{\AskInc@OrgInclude}{}
\let\AskInc@OrgInclude\include
```

\AskInc@AskFile

```
\let\AskInc@AskFile\@gobble
```

\AskInc@MatchFile

```
\let\AskInc@MatchFile\@gobble
```

\include

```
\renewcommand*{\include}[1]{%
  \AskInc@WriteAddFile{#1}%
  \AskInc@AskFile{#1}%
  \AskInc@MatchFile{#1}%
  \AskInc@OrgInclude{#1}%
}
```

2.6 Store answer and match method in `.aux` file

```
\AtEndOfPackage{%
  \AtBeginDocument{%
    \@ifundefined{AskInc@Answer}{}{%
      \AskInc@WriteAux{%
        \string\gdef\string\AskInc@Answer{\AskInc@Answer}%
      }{}%
    }%
    \@ifundefined{AskInc@MatchMethod}{}{%
      \AskInc@WriteAux{%
        \string\gdef\string\AskInc@MatchMethod{\AskInc@MatchMethod}%
      }{}%
    }%
  }%
}
```

2.7 Support for \@includeonly

\@includeonly Macro \@includeonly is defined for compatiblity reasons only, if the .aux file was written by versions before 2 of package askinclude.

```
\providecommand*{\@includeonly}[1]{%
  \gdef\AskInc@Answer{#1}%
  \ifx\AskInc@Answer\@empty
    \gdef\AskInc@Answer{-}%
  \fi
  \global\let\AskInc@MatchMethod\@empty
}
```

2.8 Stop if \includeonly is active

If \includeonly is used before, the questions are skipped and the data in the main auxiliary file is preserved.

```
\if@partsw
  \PackageWarningNoLine{askinclude}{%
    Previous \string\includeonly\space detected,\MessageBreak
    therefore asking for files is suppressed%
  }%
```

Dummy options.

```
  \DeclareOption{makematch}{}%
  \DeclareOption{pdfmatch}{}%
  \DeclareOption{noregexp}{}%
  \ProcessOptions*%
```

Preserve \AskInc@MatchFiles.

```
  \@ifundefined{AskInc@MatchFiles}{%
  }{%
    \ifx\AskInc@MatchMethod\@empty
    \else
      \AskInc@WriteAux{%
        \string\gdef\string\AskInc@MatchFiles{\AskInc@MatchFiles}%
      }{}%
    \fi
  }%
  \expandafter\AskInc@AtEnd
\fi%
```

2.9 \includeonly

\AskInc@OrgIncludeOnly

```
\newcommand{\AskInc@OrgIncludeOnly}{}%
\let\AskInc@OrgIncludeOnly\includeonly
```

\includeonly

```
\renewcommand*{\includeonly}[1]{%
  \PackageWarning{askinclude}{%
    \string\includeonly\space is managed by package ‘askinclude’,%
    \MessageBreak
    therefore it is ignored%
  }%
}
```

2.10 Options

\AskInc@StringNoRegExp

```
\def\AskInc@StringNoRegExp{noregexp}
```

```
\AskInc@StringMakeMatch
\def\AskInc@StringMakeMatch{makematch}
\AskInc@StringPdfMatch
\def\AskInc@StringPdfMatch{pdfmatch}
\ifAskInc@PdfMatchAvailable
\newif\ifAskInc@PdfMatchAvailable
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname pdfmatch\endcsname\relax
  \AskInc@PdfMatchAvailabletrue
\fi

\DeclareOption{makematch}{%
  \let\AskInc@MatchOption\AskInc@StringMakeMatch
}
\ifAskInc@PdfMatchAvailable
  \DeclareOption{pdfmatch}{%
    \let\AskInc@MatchOption\AskInc@StringPdfMatch
  }%
\else
  \DeclareOption{pdfmatch}{%
    \PackageWarningNoLine{askinclude}{%
      Option 'pdfmatch' is not available because\MessageBreak
      your pdfTeX does not provide \string\pdfmatch
    }%
  }%
\fi
\DeclareOption{noregexp}{%
  \let\AskInc@MatchOption\@empty
}
\ProcessOptions*
```

2.11 Strings

```
\AskInc@CharAsterisk
\def\AskInc@CharAsterisk{*}
\AskInc@CharMinus
\def\AskInc@CharMinus{-}
\AskInc@CharPlus
\def\AskInc@CharPlus{+}
\AskInc@CharQuestion
\def\AskInc@CharQuestion{?}
\AskInc@CharExclam
\def\AskInc@CharExclam{!}
\AskInc@CharYes
\def\AskInc@CharYes{y}
\AskInc@CharNo
\def\AskInc@CharNo{n}
\AskInc@CharAll
\def\AskInc@CharAll{A}
```

\AskInc@CharNone

```
\def\AskInc@CharNone{N}
```

\AskInc@CharDefault

```
\def\AskInc@CharDefault{D}
```

2.12 Set defaults

\AskInc@SanitizeAnswer

```
\def\AskInc@SanitizeAnswer#1#2{%
  \begingroup
    \escapechar=`\\%
    \edef\[{\string\[}%
    \edef\]{\string\]}%
    \edef\({\string\(}%
    \edef\){\string\)}%
    \edef\*{\string\*}%
    \edef\+{\string\+}%
    \edef\?{\string\?}%
    \edef\|{\string\|}%
    \edef\^{\string\^}%
    \edef\${\string\$}%
    \edef\{{\string\{}%
    \edef\}{\string\}}%
    \edef\.{\string\.}%
    \xdef#1{%
      \expandafter\expandafter\expandafter\zap@space
      \expandafter#2\space\@empty
    }%
  \endgroup
}
\AtBeginDocument{%
  \@ifundefined{AskInc@Answer}{%
    \global\let\AskInc@Answer\AskInc@CharAsterisk
  }{%
    \AskInc@SanitizeAnswer\AskInc@Answer\AskInc@Answer
  }%
  \global\let\AskInc@PreviousAnswer\AskInc@Answer
  \@ifundefined{AskInc@MatchMethod}{%
    \global\let\AskInc@MatchMethod\@empty
  }{}%
  \global\let\AskInc@PreviousMatchMethod\AskInc@MatchMethod
  \@ifundefined{AskInc@MatchOption}{%
    \let\AskInc@MatchOption\AskInc@MatchMethod
  }{}%
  \ifx\AskInc@MatchOption\AskInc@StringPdfMatch
    \ifAskInc@PdfMatchAvailable
    \else
      \let\AskInc@MatchOption\@empty
    \fi
  \fi
  \@ifundefined{AskInc@MatchFiles}{%
    \let\AskInc@MatchFiles\@empty
  }{}%
}
```

2.13 Questions

2.13.1 Generic question header

\AskInc@QuestionHeader

```
\def\AskInc@QuestionHeader{%
  \typeout{}%
  \typeout{**********************************}%
  \typeout{*** Package askinclude Question ***}%
  \typeout{**********************************}%
  \typeout{}%
}
```

2.13.2 Display files

\AskInc@TypeoutFiles

```
\def\AskInc@TypeoutFiles{%
  \global\let\AskInc@PreviousMatches\@empty
  \ifx\AskInc@Files\@empty
  \else
    \typeout{Files, found by previous run in \string\include:}%
    \@for\AskInc@File:=\AskInc@Files\do{%
      \ifx\AskInc@Answer\AskInc@CharAsterisk
        \let\AskInc@Mark\AskInc@CharPlus
      \else
        \let\AskInc@Mark\AskInc@CharMinus
        \ifx\AskInc@Answer\AskInc@CharMinus
        \else
          \ifx\AskInc@MatchMethod\@empty
            \expandafter\@firstoftwo
          \else
            \expandafter\@secondoftwo
          \fi
          {\@for\AskInc@Temp:=\AskInc@Answer}%
          {\@for\AskInc@Temp:=\AskInc@MatchFiles}%
          \do{%
            \ifx\AskInc@File\AskInc@Temp
              \let\AskInc@Mark\AskInc@CharPlus
            \fi
          }%
        \fi
      \fi
      \typeout{ \@spaces(\AskInc@Mark) \AskInc@File}%
      \ifx\AskInc@Mark\AskInc@CharPlus
        \ifx\AskInc@PreviousMatches\@empty
          \global\let\AskInc@PreviousMatches\AskInc@File
        \else
          \expandafter\g@addto@macro
          \expandafter\AskInc@PreviousMatches{%
            \expandafter,\AskInc@File
          }%
        \fi
      \fi
    }%
    \typeout{}%
  \fi
}
```

2.13.3 Previous answer

\AskInc@TypeoutPreviousAnswer

```
\def\AskInc@TypeoutPreviousAnswer{%
  \typeout{%
    Previous answer (%
    \ifx\AskInc@MatchMethod\@empty
      noregexp%
    \else
```

```
      \AskInc@MatchMethod
    \fi
    ):%
  }%
  \typeout{ \@spaces[\AskInc@Answer]}%
  \typeout{}%
}
```

2.13.4 Current regular expression support

\AskInc@TypeoutMatchMethod

```
\def\AskInc@TypeoutMatchMethod{%
  \typeout{Regular expressions:}%
  \AskInc@TypeoutMethod\@empty{noregexp}{%
    \space disabled%
  }%
  \AskInc@TypeoutMethod\AskInc@StringMakeMatch{makematch}{%
    enabled, using package ‘makematch’%
  }%
  \ifAskInc@PdfMatchAvailable
    \AskInc@TypeoutMethod\AskInc@StringPdfMatch{pdfmatch}{%
      \space enabled, using pdfTeX’s \string\pdfmatch
    }%
  \fi
  \typeout{}%
}
```

\AskInc@TypeoutMethod

```
\def\AskInc@TypeoutMethod#1#2#3{%
  \typeout{%
    \ifx#1\AskInc@MatchOption \space--> \else\@spaces\space\fi
    [#2] #3% hash-ok
  }%
}
```

2.13.5 Main question text

\AskInc@TypeoutMainQuestion

```
\def\AskInc@TypeoutMainQuestion{%
  \typeout{Which files do you want to include?}%
  \typeout{ \@spaces[foo,bar] \space\space
      comma separated file or pattern list}%
  \typeout{ \@spaces[*] \@spaces\@spaces all files}%
  \typeout{ \@spaces[-] \@spaces\@spaces no files}%
  \typeout{ \@spaces[?] \@spaces\@spaces ask for each file}%
}
```

2.13.6 Main question

\AskInc@MainQuestion

```
\def\AskInc@MainQuestion{%
  \AskInc@QuestionHeader
  \AskInc@TypeoutFiles
  \AskInc@TypeoutPreviousAnswer
  \AskInc@TypeoutMatchMethod
  \AskInc@TypeoutMainQuestion
  \begingroup
    \@makeother\*%
    \@makeother\-%
    \@makeother\?%
    \@makeother\,%
```

```
    \@makeother\!%
    \@makeother\^%
    \@makeother\$%
    \@makeother\(%
    \@makeother\)%
    \@makeother\+%
    \@makeother\[%
    \@makeother\]%
    \@makeother\\%
    \@makeother\|%
    \@makeother\:%
    \@makeother\.%
    \typein[\answer]%
        { \@spaces[] \space\@spaces\@spaces use the previous answer}%
    \typeout{}%
    \AskInc@SanitizeAnswer\AskInc@@Answer\answer
  \endgroup
  \let\AskInc@Next\AskInc@MainQuestion
  \ifx\AskInc@@Answer\AskInc@StringNoRegExp
    \let\AskInc@MatchOption\@empty
  \else
    \ifx\AskInc@@Answer\AskInc@StringMakeMatch
      \let\AskInc@MatchOption\AskInc@StringMakeMatch
    \else
      \ifx\AskInc@@Answer\AskInc@StringPdfMatch
        \ifAskInc@PdfMatchAvailable
          \let\AskInc@MatchOption\AskInc@StringPdfMatch
        \else
          \PackageWarning{askinclude}{%
            Method 'pdfmatch' is not available because\MessageBreak
            your pdfTeX does not provide \string\pdfmatch
          }%
          \let\AskInc@MatchOption\@empty
        \fi
      \else
        \ifx\AskInc@@Answer\@empty
          \global\let\AskInc@@Answer\AskInc@Answer
        \fi
        \let\AskInc@Next\AskInc@MainAnswer
      \fi
    \fi
  \fi
  \AskInc@Next
}
```

2.14 Evaluate answer of main question

\AskInc@MainAnswer

```
\def\AskInc@MainAnswer{%
  \ifx\AskInc@@Answer\AskInc@CharQuestion
    \global\let\AskInc@Answer\@empty
    \global\let\AskInc@MatchMethod\@empty
    \global\let\AskInc@AskFile\AskInc@DoAskFile
    \AskInc@OrgIncludeOnly{}%
  \else
    \global\let\AskInc@Answer\AskInc@@Answer
    \ifx\AskInc@@Answer\AskInc@CharAsterisk
      \global\let\AskInc@MatchMethod\@empty
    \else
      \ifx\AskInc@@Answer\AskInc@CharMinus
        \global\let\AskInc@MatchMethod\@empty
        \AskInc@OrgIncludeOnly{}%
```

```
      \else
        \global\let\AskInc@MatchMethod\AskInc@MatchOption
        \ifx\AskInc@MatchOption\@empty
          \expandafter\AskInc@OrgIncludeOnly\expandafter{%
            \AskInc@Answer
          }%
        \else
          \AskInc@MatchInit
          \AskInc@OrgIncludeOnly{}%
        \fi
      \fi
    \fi
  \fi
  \let\AskInc@Include\AskInc@DoInclude
}
```

\AskInc@MatchInit

```
\def\AskInc@MatchInit{%
  \RequirePackage{kvsetkeys}[2007/09/29]%
  \expandafter\comma@normalize\expandafter{\AskInc@Answer}%
  \global\let\AskInc@MatchList\comma@list
```

\AskInc@MatchFile

```
  \def\AskInc@MatchFile##1{%
    \AskInc@DoMatch{##1}{%
      \AskInc@WriteAddMatch{##1}%
      \ifx\@partlist\@empty
        \gdef\@partlist{##1}%
      \else
        \g@addto@macro\@partlist{,##1}%
      \fi
    }%
  }%

  \ifx\AskInc@MatchMethod\AskInc@StringMakeMatch
    \AskInc@MakeMatchInit
  \else
    \AskInc@PdfMatchInit
  \fi
  \let\AskInc@MatchInit\@undefined
}
```

\AskInc@MakeMatchInit

```
\def\AskInc@MakeMatchInit{%
  \RequirePackage{makematch}%
```

\AskInc@DoMatch

```
  \def\AskInc@DoMatch##1{%
    \def\AskInc@Temp{%
      \MakeMatcher[,]\AskInc@Temp
    }%
    \expandafter\AskInc@Temp\expandafter{\AskInc@MatchList}%
    \AskInc@Temp{{##1}}\@firstofone\@gobble
  }%

  \let\AskInc@MakeMatchInit\@undefined
}
```

\AskInc@PdfMatchInit

```
\def\AskInc@PdfMatchInit{%
```

\ifAskInc@Found

```
\newif\ifAskInc@Found
```

\AskInc@DoMatch

```
\def\AskInc@DoMatch##1{%
  \AskInc@Foundfalse
  \expandafter\comma@parse@normalized\expandafter
  {\AskInc@MatchList}{\AskInc@CheckMatch{##1}}%
  \ifAskInc@Found
    \expandafter\@firstofone
  \else
    \expandafter\@gobble
  \fi
}%
```

\AskInc@CheckMatch

```
\def\AskInc@CheckMatch##1##2{%
  \AskInc@@CheckMatch##2\@empty\@nil{##1}%
}%
```

\AskInc@@CheckMatch

```
\def\AskInc@@CheckMatch##1##2\@nil##3{%
  \def\AskInc@Temp{##1}%
  \ifx\AskInc@Temp\AskInc@CharExclam
    \ifcase\pdfmatch{##2}{##3}=1 %
    \or
      \AskInc@Foundfalse
    \else
      \AskInc@InvalidPattern{##2}{##1##2}%
    \fi
  \else
    \ifcase\pdfmatch{##1##2}{##3} %
    \or
      \AskInc@Foundtrue
    \else
      \AskInc@InvalidPattern{##1##2}{##1##2}%
    \fi
  \fi
}%
```

\AskInc@InvalidPattern Prints a warning with the regular expression and removes it from the list to prevent further warnings for the same expression.

```
\def\AskInc@InvalidPattern##1##2{%
  \edef\AskInc@Temp{##1}%
  \PackageWarningNoLine{askinclude}{%
    Invalid pattern `\AskInc@Temp' for \string\pdfmatch
  }%
  \edef\AskInc@Temp{##2}%
  \global\expandafter\let\expandafter\AskInc@MatchList
  \expandafter\@empty
  \expandafter\comma@parse@normalized\expandafter
  {\AskInc@MatchList}\AskInc@FilterPattern
}%
```

\AskInc@FilterPattern

```
\def\AskInc@FilterPattern##1{%
  \edef\AskInc@Pattern{##1}%
  \ifx\AskInc@Temp\AskInc@Pattern
  \else
    \ifx\AskInc@MatchList\@empty
      \global\let\AskInc@MatchList\AskInc@Pattern
```

```
      \else
        \expandafter\g@addto@macro\expandafter\AskInc@MatchList{%
          \expandafter,\AskInc@Pattern
        }%
      \fi
    \fi
  }%
  \let\AskInc@PdfMatchInit\@undefined
}
```

\AskInc@WriteDefAddMatch

```
\def\AskInc@WriteDefAddMatch{%
  \AskInc@WriteDefAddList
  \AskInc@WriteAux{%
```

\AskInc@AddMatch

```
    \string\providecommand\string\AskInc@AddMatch{%
      \string\AskInc@AddList\string\AskInc@MatchFiles
    }%
  }{%
    \global\let\AskInc@WriteDefAddMatch\relax
  }%
}
```

\AskInc@AddMatch

```
\AtBeginDocument{%
  \global\let\AskInc@AddMatch\@gobble
}
```

\AskInc@WriteAddMatch

```
\def\AskInc@WriteAddMatch#1{%
  \AskInc@WriteDefAddMatch
  \AskInc@WriteAux{%
    \string\AskInc@AddMatch{#1}%
  }{}%
}
```

\AskInc@SaveAnswer

```
\def\AskInc@SaveAnswer{%
  \AskInc@WriteAux{%
      \string\gdef\string\AskInc@Answer{\AskInc@Answer}%
  }{}%
}
```

2.15 Ask for each file

\AskInc@PreviousAnswer

```
\@ifundefined{AskInc@PreviousAnswer}{%
  \let\AskInc@PreviousAnswer\AskInc@CharAsterisk
}{}
```

\AskInc@PreviousMatchMethod

```
\@ifundefined{AskInc@PreviousMatchMethod}{%
  \let\AskInc@PreviousMatchMethod\@empty
}{}
```

\AskInc@DoAskFile

```
\def\AskInc@DoAskFile#1{%
  \edef\AskInc@File{#1}%
  \ifx\AskInc@PreviousAnswer\AskInc@CharAsterisk
    \let\AskInc@Default\AskInc@CharYes
  \else
    \let\AskInc@Default\AskInc@CharNo
    \ifx\AskInc@PreviousAnswer\AskInc@CharMinus
    \else
      \ifx\AskInc@PreviousMatchMethod\@empty
        \expandafter\@firstoftwo
      \else
        \expandafter\@secondoftwo
      \fi
      {\@for\AskInc@Temp:=\AskInc@PreviousAnswer}%
      {\@for\AskInc@Temp:=\AskInc@MatchFiles}%
      \do{%
        \ifx\AskInc@Temp\AskInc@File
          \let\AskInc@Default\AskInc@CharYes
        \fi
      }%
    \fi
    \ifx\AskInc@Default\AskInc@CharNo
      \let\AskInc@Default\AskInc@CharYes
      \@for\AskInc@Temp:=\AskInc@Files\do{%
        \ifx\AskInc@Temp\AskInc@File
          \let\AskInc@Default\AskInc@CharNo
        \fi
      }%
    \fi
  \fi
  \let\AskInc@@QuestionHeader\AskInc@QuestionHeader
  \AskInc@AskQuestion
  \ifx\AskInc@AskResult\AskInc@CharYes
    \ifx\AskInc@Answer\@empty
      \gdef\AskInc@Answer{#1}%
    \else
      \g@addto@macro\AskInc@Answer{,#1}%
    \fi
    \AskInc@SaveAnswer
    \let\@partlist\AskInc@Answer
  \fi
}
```

\AskInc@AskQuestion

```
\def\AskInc@AskQuestion{%
  \let\AskInc@Temp\answer
  \AskInc@@QuestionHeader
  \let\AskInc@@QuestionHeader\relax
  \typein[\answer]{%
    Include `\AskInc@File'? [y]es, [n]o, [A]ll, [N]one, [D]efault %
    (\AskInc@Default):%
  }%
  \typeout{}%
  \let\AskInc@AskResult\answer
  \let\answer\AskInc@Temp
  \ifx\AskInc@AskResult\@empty
    \let\AskInc@AskResult\AskInc@Default
    \let\AskInc@Next\relax
  \else
    \ifx\AskInc@AskResult\AskInc@CharYes
      \let\AskInc@Next\relax
```

```
    \else
      \ifx\AskInc@AskResult\AskInc@CharNo
        \let\AskInc@Next\relax
      \else
        \ifx\AskInc@AskResult\AskInc@CharAll
          \gdef\AskInc@AskQuestion{%
            \let\AskInc@AskResult\AskInc@CharYes
          }%
        \else
          \ifx\AskInc@AskResult\AskInc@CharNone
            \gdef\AskInc@AskQuestion{%
              \let\AskInc@AskResult\AskInc@CharNo
            }%
          \else
            \ifx\AskInc@AskResult\AskInc@CharDefault
              \gdef\AskInc@AskQuestion{%
                \let\AskInc@AskResult\AskInc@Default
              }%
            \else
              \PackageWarningNoLine{askinclude}{%
                Invalid answer [\AskInc@AskResult].\MessageBreak
                Answer must be one letter out of [ynAND]%
              }%
            \fi
          \fi
        \fi
        \let\AskInc@Next\AskInc@AskQuestion
      \fi
    \fi
  \fi
  \AskInc@Next
}
\AtBeginDocument{\AskInc@MainQuestion}
\AskInc@AtEnd%
⟨/package⟩
```

3 Test

3.1 Included files

```
⟨*a⟩
\chapter{Chapter A}
\let\filea=Y
⟨/a⟩
⟨*b⟩
\chapter{Chapter B}
\let\fileb=Y
⟨/b⟩
⟨*c⟩
\chapter{Chapter C}
\let\filec=Y
⟨/c⟩
```

3.2 Special test setup

```
⟨*test18⟩
\includeonly{askinclude-b}
⟨/test18⟩
⟨*test20 | test21 | test22⟩
\let\AtBeginDocumentMode=N%
```

```
⟨/test20 | test21 | test22⟩
```

3.3 Common start

```
⟨*test0⟩
\ifx\CompatibilityMode Y%
  \documentstyle[filecontents,qstest,askinclude]{book}%
\else
  \documentclass{book}%
  \usepackage{filecontents}%
  \usepackage{qstest}%
⟨*test1⟩
  \makeatletter
  \def\RestoreCatcodes{}%
  \count@=0 %
  \loop
    \edef\RestoreCatcodes{%
      \RestoreCatcodes
      \catcode\the\count@=\the\catcode\count@\relax
    }%
  \ifnum\count@<255 %
    \advance\count@\@ne
  \repeat
  \def\RangeCatcodeInvalid#1#2{%
    \count@=#1\relax
    \loop
      \catcode\count@=15 %
    \ifnum\count@<#2\relax
      \advance\count@\@ne
    \repeat
  }%
  \def\Test#1\EndTest{%
    \RangeCatcodeInvalid{0}{47}%
    \RangeCatcodeInvalid{58}{64}%
    \RangeCatcodeInvalid{91}{96}%
    \RangeCatcodeInvalid{123}{255}%
    \catcode`\@=12 %
    \catcode`\\=0 %
    \catcode`\{=1 %
    \catcode`\}=2 %
    \catcode`\#=6 %
    \catcode`\[=12 %
    \catcode`\]=12 %
    \catcode`\%=14 %
    \catcode`\ =10 %
    \catcode13=5 %
    #1\relax
    \RestoreCatcodes
    \makeatother
  }%
  \Test
⟨/test1⟩
⟨*!test1⟩
  \ifx\AtBeginDocumentMode Y%
    \AtBeginDocument{%
      \usepackage{askinclude}[2008/08/11]%
    }%
  \else
⟨/!test1⟩
    \usepackage{askinclude}[2008/08/11]%
⟨*!test1⟩
  \fi
⟨/!test1⟩
```

```
⟨*test1⟩
  \EndTest
⟨/test1⟩
\fi
\IncludeTests{*}
\LogTests{log}{*}{*}
\makeatletter
\let\org@typein\typein
\def\typein[#1]#2{%
  \ifx\@Stack\@StackEmpty
    \begin{qstest}{StackNonEmpty}{StackNonEmpty}%
      \Expect{Error: empty stack}{}%
    \end{qstest}%
    \org@typein[{#1}]{#2}%
  \else
    \edef#1{%
      \unexpanded\expandafter\expandafter\expandafter{%
        \expandafter\@car\@Stack\@nil
      }%
    }%
    \xdef\@Stack{%
      \unexpanded\expandafter\expandafter\expandafter{%
        \expandafter\@cdr\@Stack\@nil
      }%
    }%
    \typeout{}%
    \typeout{\string#1=#1}%
  \fi
}
\def\@StackEmpty{\BOTTOM}
\let\@Stack\@StackEmpty
\newcommand*{\Stack}[1]{%
  \def\@Stack{#1\BOTTOM}%
}
\AtEndDocument{%
  \begin{qstest}{StackUsed}{StackUsed}%
    \Expect*{%
      \ifx\@Stack\@StackEmpty
      \else
        Error: Unused stack entries%
      \fi
    }{}%
  \end{qstest}%
}
\newcommand*{\CheckInclude}[2]{%
  \include{askinclude-#1}%
  \begin{qstest}{CheckInclude-#1}{CheckInclude-#1}%
    \Expect*{%
      \expandafter\ifx\csname file#1\endcsname Ytrue\else false\fi
    }{#2}%
  \end{qstest}%
}
\def\@EndChecks{}
\AtBeginDocument{%
  \AtEndDocument{%
    \if@filesw
      \immediate\write\@mainaux{\string\@EndChecks}%
    \fi
  }%
}
\newcommand*{\CheckAnswer}[1]{%
  \gdef\AnswerText{#1}%
```

```
  \g@addto@macro\@EndChecks{\@CheckAnswer}%
}
\def\@CheckAnswer{%
  \begin{qstest}{CheckAnswer}{CheckAnswer}%
    \Expect*{\unexpanded\expandafter{\AskInc@Answer}}%
            *{\unexpanded\expandafter{\AnswerText}}%
  \end{qstest}%
}
\newcommand*{\CheckMatchMethod}[1]{%
  \gdef\MatchMethodText{#1}%
  \g@addto@macro\@EndChecks{\@CheckMatchMethod}%
}
\def\@CheckMatchMethod{%
  \begin{qstest}{CheckMatchMethod}{CheckMatchMethod}%
    \Expect*{\unexpanded\expandafter{\AskInc@MatchMethod}}%
            *{\unexpanded\expandafter{\MatchMethodText}}%
  \end{qstest}%
}
\def\@CheckAux{%
  \begin{qstest}{CheckAux}{CheckAux}%
    \def\GetFileContents##1{%
      \pdfunescapehex{%
        \pdffiledump length\pdffilesize{##1}{##1}%
      }%
    }%
    \Expect*{\GetFileContents{\jobname.aux}}%
            *{\GetFileContents{\jobname-aux.aux}}%
  \end{qstest}%
}
\g@addto@macro\@EndChecks{\@CheckAux}
\let\org@filec@ntents\filec@ntents
\def\filec@ntents{%
  \catcode`\|=0 %
  \org@filec@ntents
}
\begingroup
  \endlinechar=-1 %
  \catcode`\|=0 %
  \@makeother\#%
  \@makeother\\%
  |gdef|AddList{%
    \providecommand*\AskInc@AddList[2]{%
      \ifcase\ifx#1\@undefined
             \else\ifx#1\relax
             \else\ifx#1\@empty
             \else1\fi\fi\fi0 %
        \gdef#1{#2}%
      \else
        \g@addto@macro#1{,#2}%
      \fi
    }%
  }%
  |gdef|AddFile{%
    \providecommand\AskInc@AddFile{%
      \AskInc@AddList\AskInc@Files
    }%
  }%
  |gdef|AddMatch{%
    \providecommand\AskInc@AddMatch{%
      \AskInc@AddList\AskInc@MatchFiles
    }%
  }%
```

```
|endgroup
⟨/test0⟩
```

3.4 First run tests

```
⟨*test1⟩
\Stack{{}}
\CheckAnswer{*}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{*}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
⟨/test1⟩
```

```
⟨*test2⟩
\Stack{*}
\CheckAnswer{*}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{*}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
⟨/test2⟩
```

```
⟨*test3⟩
\Stack{-}%
\CheckAnswer{-}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
```

```
\gdef\AskInc@Answer{-}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
⟨/test3⟩
⟨*test4⟩
\Stack{{askinclude-b}}
\CheckAnswer{askinclude-b}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{askinclude-b}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{true}
\CheckInclude{c}{false}
⟨/test4⟩
⟨*test5⟩
\Stack{{askinclude-a,askinclude-c}}
\CheckAnswer{askinclude-a,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{askinclude-a,askinclude-c}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
```

```
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{true}
⟨/test5⟩
⟨*test6⟩
\Stack{?yny}
\CheckAnswer{askinclude-a,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\gdef\AskInc@Answer{askinclude-a,askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{true}
⟨/test6⟩
⟨*test7⟩
\Stack{?yA}
\CheckAnswer{askinclude-a,askinclude-b,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\gdef\AskInc@Answer{askinclude-a,askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\gdef\AskInc@Answer{askinclude-a,askinclude-b,askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
⟨/test7⟩
⟨*test8⟩
\Stack{?yD}
```

```
\CheckAnswer{askinclude-a,askinclude-b,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\gdef\AskInc@Answer{askinclude-a,askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\gdef\AskInc@Answer{askinclude-a,askinclude-b,askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
⟨/test8⟩
⟨*test9⟩
\Stack{?yN}
\CheckAnswer{askinclude-a}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
⟨/test9⟩
⟨*test10⟩
\Stack{?{}N}
\CheckAnswer{askinclude-a}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
```

```
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
⟨/test10⟩
⟨*test11⟩
\Stack{?xxyxxN}
\CheckAnswer{askinclude-a}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
⟨/test11⟩
```

3.5 Second run tests

```
⟨*test12⟩
\Stack{{}}
\CheckAnswer{askinclude-b}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-b}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\AskInc@AddFile{askinclude-c}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{askinclude-b}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
```

```
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{true}
\CheckInclude{c}{false}
⟨/test12⟩
⟨*test13⟩
\Stack{{}}
\CheckAnswer{askinclude-b}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-b}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{askinclude-b}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{true}
\CheckInclude{c}{false}
⟨/test13⟩
⟨*test14⟩
\Stack{{}}
\CheckAnswer{*}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{*}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{*}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
```

```
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
⟨/test14⟩
⟨*test15⟩
\Stack{?D}
\CheckAnswer{askinclude-a,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-a}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\gdef\AskInc@Answer{askinclude-a,askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{true}
⟨/test15⟩
⟨*test16⟩
\Stack{?A}
\CheckAnswer{askinclude-a,askinclude-b,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-a}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\gdef\AskInc@Answer{askinclude-a}
```

```
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\gdef\AskInc@Answer{askinclude-a,askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\gdef\AskInc@Answer{askinclude-a,askinclude-b,askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
⟨/test16⟩
⟨*test17⟩
\Stack{?N}
\CheckAnswer{}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-a}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
⟨/test17⟩
⟨*test18⟩
\Stack{}
\CheckAnswer{askinclude-a}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-a}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{askinclude-a}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
```

```
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{true}
\CheckInclude{c}{false}
```
⟨/test18⟩

⟨*test19⟩
```
\Stack{?N}
\CheckAnswer{}
\begin{filecontents*}{\jobname.aux}
\gdef\AskInc@Answer{askinclude-a}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\AskInc@AddFile{askinclude-b}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\ifx\AtBeginDocumentMode Y%
  \AtBeginDocument{\includeonly{askinclude-b}}%
\else
  \includeonly{askinclude-b}%
\fi
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
```
⟨/test19⟩

3.6 Compatibility for changing from old to new

⟨*test20⟩
```
\Stack{{}}
\CheckAnswer{*}
\begin{filecontents*}{\jobname.aux}
\@includeonly{*}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{*}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
```

```
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{true}
\CheckInclude{c}{true}
```
⟨/test20⟩

⟨*test21⟩
```
\Stack{{}}
\CheckAnswer{-}
\begin{filecontents*}{\jobname.aux}
\@includeonly{}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{-}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{false}
\CheckInclude{b}{false}
\CheckInclude{c}{false}
```
⟨/test21⟩

⟨*test22⟩
```
\Stack{{}}
\CheckAnswer{askinclude-a,askinclude-c}
\begin{filecontents*}{\jobname.aux}
\@includeonly{askinclude-a,askinclude-c}
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{askinclude-a,askinclude-c}
\gdef\AskInc@MatchMethod{}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{true}
```
⟨/test22⟩

3.7 Regular expressions

```
⟨*test23⟩
\Stack{{makematch}{*,!askinclude-b}}
\CheckAnswer{*,!askinclude-b}
\CheckMatchMethod{makematch}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{*,!askinclude-b}
\gdef\AskInc@MatchMethod{makematch}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
|AddMatch
\AskInc@AddMatch{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\AskInc@AddMatch{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{true}
⟨/test23⟩
```

```
⟨*test24⟩
\Stack{{pdfmatch}{.,!askinclude-b}}
\CheckAnswer{.,!askinclude-b}
\CheckMatchMethod{pdfmatch}
\begin{filecontents*}{\jobname.aux}
\relax
\end{filecontents*}
\begin{filecontents*}{\jobname-aux.aux}
\relax|space
\gdef\AskInc@Answer{.,!askinclude-b}
\gdef\AskInc@MatchMethod{pdfmatch}
|AddList
|AddFile
\AskInc@AddFile{askinclude-a}
|AddMatch
\AskInc@AddMatch{askinclude-a}
\@input{askinclude-a.aux}
\AskInc@AddFile{askinclude-b}
\@input{askinclude-b.aux}
\AskInc@AddFile{askinclude-c}
\AskInc@AddMatch{askinclude-c}
\@input{askinclude-c.aux}
\@EndChecks
\end{filecontents*}
\begin{document}
\CheckInclude{a}{true}
\CheckInclude{b}{false}
\CheckInclude{c}{true}
⟨/test24⟩
```

3.8 Common end

```
⟨*test0⟩
\end{document}
⟨/test0⟩
```

4 Installation

4.1 Download

Package. This package is available on CTAN[1]:

`CTAN:macros/latex/contrib/oberdiek/askinclude.dtx` The source file.

`CTAN:macros/latex/contrib/oberdiek/askinclude.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 TEX Files" (`CTAN:tds/tds.pdf`). Directories with `texmf` in their name are usually organized this way.

4.2 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/
```

4.3 Package installation

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

```
tex askinclude.dtx
```

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

[1] `ftp://ftp.ctan.org/tex-archive/`

```
askinclude.sty             → tex/latex/oberdiek/askinclude.sty
askinclude.pdf             → doc/latex/oberdiek/askinclude.pdf
test/askinclude-a.tex      → doc/latex/oberdiek/test/askinclude-a.tex
test/askinclude-b.tex      → doc/latex/oberdiek/test/askinclude-b.tex
test/askinclude-c.tex      → doc/latex/oberdiek/test/askinclude-c.tex
test/askinclude-test1.tex  → doc/latex/oberdiek/test/askinclude-test1.tex
test/askinclude-test2.tex  → doc/latex/oberdiek/test/askinclude-test2.tex
test/askinclude-test3.tex  → doc/latex/oberdiek/test/askinclude-test3.tex
test/askinclude-test4.tex  → doc/latex/oberdiek/test/askinclude-test4.tex
test/askinclude-test5.tex  → doc/latex/oberdiek/test/askinclude-test5.tex
test/askinclude-test6.tex  → doc/latex/oberdiek/test/askinclude-test6.tex
test/askinclude-test7.tex  → doc/latex/oberdiek/test/askinclude-test7.tex
test/askinclude-test8.tex  → doc/latex/oberdiek/test/askinclude-test8.tex
test/askinclude-test9.tex  → doc/latex/oberdiek/test/askinclude-test9.tex
test/askinclude-test10.tex → doc/latex/oberdiek/test/askinclude-test10.tex
test/askinclude-test11.tex → doc/latex/oberdiek/test/askinclude-test11.tex
test/askinclude-test12.tex → doc/latex/oberdiek/test/askinclude-test12.tex
test/askinclude-test13.tex → doc/latex/oberdiek/test/askinclude-test13.tex
test/askinclude-test14.tex → doc/latex/oberdiek/test/askinclude-test14.tex
test/askinclude-test15.tex → doc/latex/oberdiek/test/askinclude-test15.tex
test/askinclude-test16.tex → doc/latex/oberdiek/test/askinclude-test16.tex
test/askinclude-test17.tex → doc/latex/oberdiek/test/askinclude-test17.tex
test/askinclude-test18.tex → doc/latex/oberdiek/test/askinclude-test18.tex
test/askinclude-test19.tex → doc/latex/oberdiek/test/askinclude-test19.tex
test/askinclude-test20.tex → doc/latex/oberdiek/test/askinclude-test20.tex
test/askinclude-test21.tex → doc/latex/oberdiek/test/askinclude-test21.tex
test/askinclude-test22.tex → doc/latex/oberdiek/test/askinclude-test22.tex
test/askinclude-test23.tex → doc/latex/oberdiek/test/askinclude-test23.tex
test/askinclude-test24.tex → doc/latex/oberdiek/test/askinclude-test24.tex
askinclude.dtx             → source/latex/oberdiek/askinclude.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.

4.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

4.5 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 askinclude.pdf unpack_files output .
```

Unpacking with LATEX. The `.dtx` chooses its action depending on the format:

plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using LATEX for docstrip (really, docstrip does not need LATEX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{askinclude.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 pdfLaTeX:

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

5 Acknowledgement

Tom Scavo suggested saving the include file list from the previous run and a simplified user interface.

Joseph Wright suggested questions for each `\include`.

6 References

[1] Posting in mailing list `texlive@tug.org`
From: Robin Fairbairns
Subject: licence on includeonly.sty
Date: Sat Oct 13 13:28:47 CEST 2007
http://www.tug.org/pipermail/tex-live/2007-October/014928.html

[2] Thread in newsgroup comp.text.tex
From: Herbert Voss
Subject: askinclude.sty
Date: Mon, 15 Oct 2007 10:06:45 +0200
Message-ID: `fev72m$b35$02$2@news.t-online.com`
http://groups.google.com/group/comp.text.tex/browse_thread/thread/728a3e73c04c6789/349e31865c40d00c?#349e31865c40d00c

[3] David Kastrup: *makematch.sty: Pattern matching with wildcards*; 2007/02/23; CTAN:macros/latex/contrib/qstest/makematch.dtx.

[4] Daniel H. Luecking, Donald Arsenau: *excludeonly.sty: eponymous command opposite to* `\includeonly`; 2003/03/14; CTAN:macros/latex/contrib/misc/excludeonly.sty.

7 History

[1991/11/05 v0.95]

- First beta-test version (asked two questions).

[1991/11/05 v0.99]

- Second beta-test version (asks one question; uses '`*`' and '`-`').

[1991/11/07 v1.0]

- Changed prompts (sent to comp.text.tex): "Interactive inclusion of files in LaTeX"[2]

[2] Url: http://groups.google.com/group/comp.text.tex/msg/34b770a7c277e79c

[1991/12/13 v1.1]

- *Unknown.*

[1994/11/02 v1.2e]

- Two small changes to run under LaTeX2e [RF].
- Additional documentation [TRS].

[2007/10/15 v1.0 (askinc)]

- Reimplementation, published as askinc in newsgroup comp.text.tex: "Re: askinclude.sty"[3]
- Listing of included files, collected from the previous run before the question.
- No error message by `.aux` file if package is removed.

[2007/10/23 v2.0]

- The next version of askinc becomes version 2.0 of askinclude.
- '?' added for questioning each file.
- `\includeonly` has precedence until package loading. Then it is disabled by a warning.
- Documentation rewritten/added.
- Tests added.

[2008/08/11 v2.1]

- Code is not changed.
- URLs updated.

8 Index

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.

Symbols

\! 355
\# 697, 820
\$ 220, 357
\% 700
\(. 213, 358
\) 214, 359
* 215, 351
\+ 216, 360
\, ... 354
\- 352
\. 223, 366
\: 365
\? 217, 353
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\@StackEmpty 729, 749, 750, 757
\@car 737
\@cdr 742
\@empty 74, 136, 139, 152, 195, 226, 238,

[3] Url: http://groups.google.com/group/comp.text.tex/msg/2d638b84a858fdc8

247, 251, 262, 263, 273, 289, 305, 317, 374, 387, 390, 401, 402, 408, 411, 415, 435, 473, 500, 508, 547, 557, 582, 602, 826
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\@for 266, 278, 279, 562, 563, 572
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