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1 About

This document is automatically generated from its own source codes.

2 Description

This is parser for inline documentation, primary for C and C++ documentation. Unlike i.e. Doxygene, this is not for code documentation but user documentation.

Basic format mark is tripple-slash (DOC_MARK = `"""`) and rest of line will be used for generating L^AT_EX documentation.

Basic function is to copy text after mark into latex document. Additional text filtering is used.

3 Text filtering

3.1 Replaced characters

Some characters must be replaced by mathematics syntax, so `'<'`, `'>'` and `'='` will be bounded by `$`. Some other characters will be complemented by `"backslash"`. They are: `'_'`, `'%'`, `'#'` and `'&'`

3.2 Special characters

First character after mark `"""` could invoke replace by macro:

```
"*" => \item
">" => \begin{list}{}{}
"<" => \end{list}
"}" => \begin{itemize}
"{ " => \end{itemize}
```

Character `'` (back apostrophe) will start/stop `'verb!'` environment:

3.3 References to code

Special mark `'~'` (tilde) will be replaced according to next character:

```
"~c" insert all next text up to next DOC_MARK (multiple lines)
"~q" insert text which is in quotes on this line (before DOC_MARK)
"~r<REF>" = insert reference from references file (see 4)
"~s" insert value <val> from "case <val>:" from current line
"~w<N>" insert <N>-th word from begin of line
```

4 Reference file

Used for references to other part of documentation.

Reference file could be created using:

```
cat <file>| grep -o "/\*~r.*\*~\*/"
```

And each line will be:

```
*~r<N>*/"some text"/*~*/
```