refdes-update

John C. Luciani Jr.

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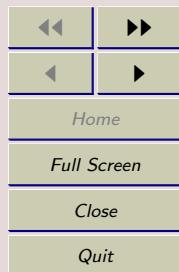
1   Overview

The script `refdes-update` is designed to change the reference resignator (refdes) attributes of schematic symbols in gschem schematics. The program is called with the command-line —

`refdes-update` ⟨*option*⟩⋆ ⟨*schematic filename*⟩⋆

The command-line options and default values are listed in . If `refdes-update` is called without schematic filename arguments all of the schematic filenames in the current directory will be parsed.

N.B. This script may not work for all gschem schematics. I wrote sufficient code to work with my schematics not for all possible schematics.

Conventions

⟨*parameter*⟩	Replace with the value of *parameter*
`verbatim text`	
refdes	Reference designator. Character string used to identify a schematic component. Each refdes consists of a prefix, an ordinal and an optional suffix.
prefix	Alphabetic string at the beginning of the refdes.
ordinal	Cardinal number that follows the prefix in a refdes. An undefined ordinal is represented by the `?` character.
suffix	Character string that follows the ordinal in a refdes.

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Question, comments, observations, unmarked bills to jluciani at gmail dot com

2 Running the Program

`refdes-update` *⟨option⟩⋆ ⟨schematic filename⟩⋆*

Schematics may be updated as individual pages or as a collection of pages. For a collection of pages there is a `pageoffset` added to each refdes ordinal. The options are listed in .

2.1 Notes

- Prior to changing the schematic file a backup file will be created. The name of the file will be *⟨schematic filename⟩*`.bak`*⟨n⟩*.

- The alphabetic suffix on a refdes is ignored when determining the new refdes ordinal. It is also ignored when creating the refdes list.

2.2 Options

Option	Default	Description
`--clear`	0	Resets all refdes ordinals to the undefined value.
`--list`	1	Outputs a list, to **STDOUT**, of refdes's that were found in each schematic. Suffixes are ignored.
`--verbose`	1	Sundry annoying messages.
`--dryrun`	0	Outputs a list of actions to be taken without performing them.
`--reuse`	0	Reuses refdes ordinals that were skipped in each schematic.
`--update`	0	Only change refdes's were the ordinal is undefined.
`--renum`	0	Change all refdes's.
`--nopageoffset`	0	Do not add an offset to subsequent schematic pages. The default sets a pageoffset.
`--pageoffset` *⟨value⟩*	100	The offset value added to the refdes ordinal is $(pagenumber - 1) \cdot pageoffset$. The default value is set to 100. Each schematic specified on the command-line is considered a page.

Table 1: refdes-update command-line options
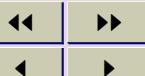
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