QSAGUI
user manual

Version 0.6

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What is QSAGUI?

QSAGUI is the graphical user interface for SourceAnalyzer. SourceAnalyzer is a set of open source tools to get a call graph from a source code, modify it and get information from it.

Getting started

At the beginning of work you should select the path to SourceAnalyzer binaries:
"Settings"→ "Settings..." or *"Settings"* button on tool bar.
Enter the full path to SourceAnalyzer binaries or select *"use system path"*, if SourceAnalyzer is located in system path.
If you are going to work with SVG representation choose path to Graphviz.
Fill other fields optionally.
All commands end service messages you will see at the bottom of window ("Application output").

Creation of call graph

"Call graph "→ "New..." or *"New"* button on tool bar or *"Ctrl+N"*.

- Base directory (only for C).
  You can ignore this option, but if you don't want to see the standard functions in call graph, enter the full path to directory with source code.
- Files for parsing.
  For C specify one of two types of files – from preprocessed code or from source file. If you choose the second variant input command for preprocessing (see the documentation for your compiler for it).
  For assembler and fortran90 select source files.

- Select full call graph name, you can write any extention but “.cg” is recommended.

Press “OK”.

Loading of call graph

- *“Call graph” → “Open...”* or *“Open”* button on tool bar or *“Ctrl+O”*. Select one or more call graphs. If you choose several call graphs they are linked in the one call graph (see path to save in “Application output”, change it in settings if needed). On the left of window you'll see lists of functions and files on tabs.
- To see the whole call graph in the central area select *“Call graph” → “Show as...”* and the output format. Note that if you choose “SVG” format you should have Graphviz package is installed.

Work with functions and files lists

- Load call graph (see “Loading of call graph”).
- Select one or more items in functions or files list (when you select file all finctions from it are analized), for multi-selection use “Ctrl” and “Shift”. Choose relations type, the output format and “input level” optionally. Press “View” and you'll see the relations list or SVG picture in the central area.

Call graphs linkage

“Call graph” → “Link...” or *“Link”* button on tool bar or *“Ctrl+L”*.

- Add call graphs for linkage to the list, use “Add...” and “Delete” buttons for items managing.
- Select full name of common call graph.

Press “OK”.

Call graph cleaning

“Call graph” → “Clean...” or *“Clean”* button on tool bar or *“Ctrl+Shift+C”*.

- Select call graph for cleaning.
- Add names of source files that were deleted to the list, use “Add...” and “Delete” buttons for items managing.
- Select full name of output call graph.

Press “OK”.

Call graph updating

“Call graph” → “Update...” or *“Update”* button on tool bar or *“Ctrl+U”*.

- Select call graph for updating.
- Add call graphs that were changed to the list, use “Add...” and “Delete” buttons for items managing.
- Select full name of output call graph.

Press “OK”.

Other

You can work with tabs, print and save documents (see “*File*” menu), enable “full screen” mode and show/hide windows (see “*View*” menu), use search, clean window and terminate processes (see “*Edit*” menu).
For more information see “*Help*” → “*About*” and “*Help*” → “*Help*”.