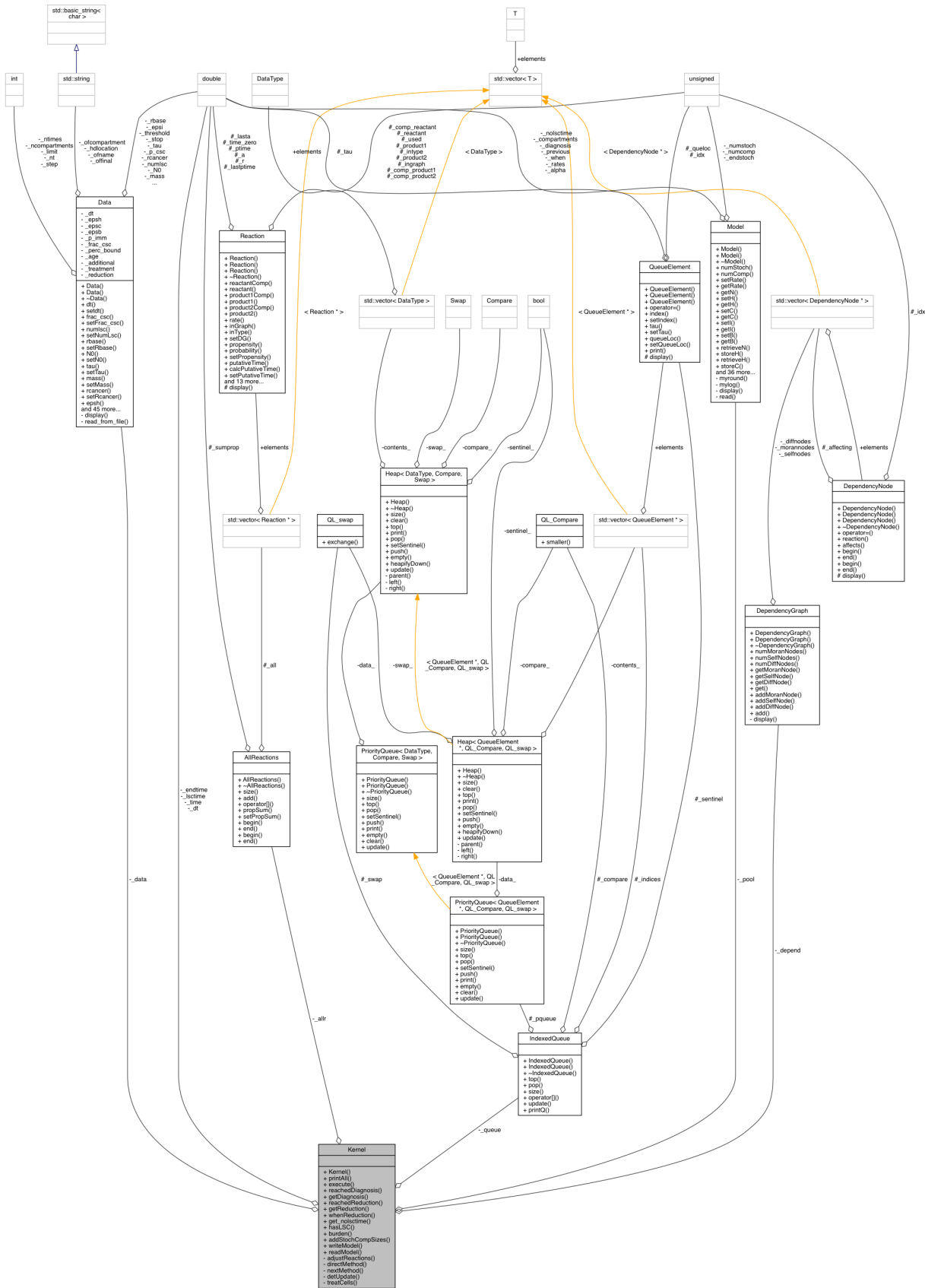


Creating a visualization of a C++ project with doxygen

Doxygen can create beautiful figures out of your C++ source code. Even if it not really useful, you can at least look at a nice graph that shows all the complicated dependencies of the objects in your project.



The above image was produced for [Stochtreat](#). Below are the instructions to create this graph using the terminal in Mac OS:

- 1. To install doxygen you can use `brew install doxygen` (of cause only if you have [homebrew](#) installed).
- 2. For creating the graphs you also need graphviz: `brew install graphviz`.
- 3. You then need to create a config file inside your projects folder: `doxygen -g` generates a commented default config file with the name “Doxyfile”.
- 4. In the now generated file “Doxyfile”, set some or all of the following variables (in principle just search for “dots” and change the related settings):

```
PROJECT_NAME           = "something"
OUTPUT_DIRECTORY       = ./doxydoc/
BUILTIN_STL_SUPPORT    = YES
EXTRACT_ALL            = YES
INPUT                  = ./src ./include
RECURSIVE              = YES
HIDE_UNDOC_RELATIONS   = NO
HAVE_DOT               = YES
UML_LOOK               = YES
CALL_GRAPH             = YES
CALLER_GRAPH           = YES
```

- 1. Finally, start `doxygen Doxyfile` and you will find your beautiful figures in the documentation inside the `./doxydoc/` folder.