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for Today

## Generating a callgraph by using Doxygen and Graphviz

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One of the questions of my OS assignment asks me to draw a callgraph. It can be one-time task and I can draw it on a piece of paper. Soon I noticed that the one that I want to draw is much bigger in size that I can simply draw on a paper. Also I wanted to draw it in 'fancier' way. I search the Internet, and I found this is one of the choices.

The following is what I have done.

- 1. Install Doxygen and Graphviz. In my case, I only had to install Graphviz (and I am using linux fedora)
  - sudo yum install graphviz
- 2. Go to the folder where your source files are located.
- 3. doxygen -g

This will generate a configuration file, named 'Doxyfile'.

4. Modify Doxyfile if necessary. To generate a callgraph, you need to set up appropriately. I changed the following properties.

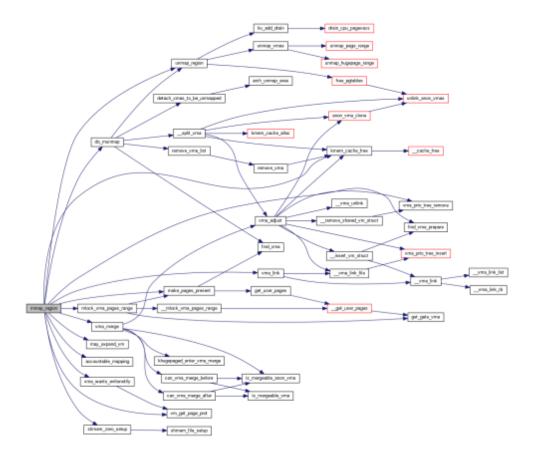
```
HAVE DOT
                = YES
EXTRACT_ALL
                 = YES
EXTRACT PRIVATE
                   = YES
EXTRACT STATIC
                  = YES
CALL_GRAPH
                 = YES
```

- 5. Then you run doxygen:
  - doxygen Doxyfile
- 6. New folder 'html' and 'latex' will be generated, and you can find all the documentations in the folders.

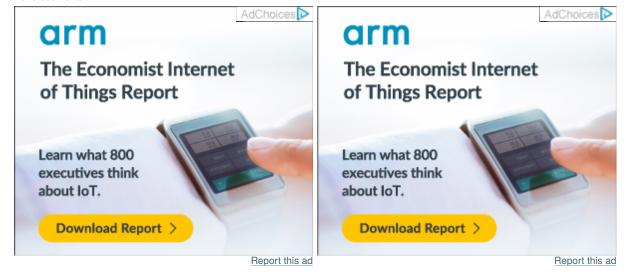
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## This is an example of callgraph generated by doxygen.



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