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How do I make ctest run a program with valgrind without dart?

I want to write a CMakeLists.txt so that I can run my tests normally or with valgrind. I have seen much on integrating ctest with valgrind but all with the assumption that you want to set up a server to submit test results to a dart dashboard. I just want to run the tests on my machine and see the results on the command line.

If I have to do a cmake -D VALGRIND=ON thats fine, but I'd rather generate tests named "foo" and "valgrind_foo" if possible.

cmake valgrind

asked Feb 16 '12 at 0:15 leif **1.112** 1 10 21

3 Answers

I use valgrind for my memory check. To configure valgrind, I define the following variables in my build system:

```
find_program( MEMORYCHECK_COMMAND valgrind )
set( MEMORYCHECK_COMMAND_OPTIONS "--trace-children=yes --leak-check=full" )
```

Also, in there is my valgrind suppression file:

```
set( MEMORYCHECK_SUPPRESSIONS_FILE "${PROJECT_SOURCE_DIR}/valgrind_suppress.txt" )
```

After you write your CMakeLists.txt files and configure valgrind correctly in them, you can run the following command:

```
cmake -G ... (to configure your build)
ctest -D ExperimentalBuild (this will build your code)
ctest -R testName -D ExperimentalTest (just runs the test)
\verb|ctest-R| testName -D| Experimental MemCheck (to run the test under valgrind)|\\
```

This will trick your build system to run the test automation locally. It expects you to run:

```
ctest -R testName -D ExperimentalSubmit
```

next, to submit to the (default or your) Dashboard, but you don't need to go through this step to run what you want. The results will be stored in the Testing/Temporary/ directory.



How do you "configure valgrind correctly in them" ? – ibizaman Dec 24 '14 at 13:09

Good guestion... I've edited the answer. - KlingonJoe Dec 25 '14 at 14:17

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