Trabalho 2

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Ferramentas escolhidas

- static analysis tool
 - cppcheck
- Coverage
 - Gcov
- Continuous Integration
 - Travis CI
- Testing for performance
 - Gprof

.travis.yml

```
sudo: true
language: cpp
compiler:
  - gcc
addons:
  apt:
    sources:
    - ubuntu-toolchain-r-test
   packages:
    -q++-6
    - cppcheck
before install:
  - python --version
install:
- "[ $CXX = g++ ] && export CXX=g++-6 || true"
- sudo pip install gdown
- ./instal.sh
script:
  - cd ./software/tests/math/cos
  - make clean
  - make test
  - cppcheck test.c > cppcheck.log
  - gcov hf_riscv_sim.c >gcov.log
  - gprof ./hf_riscv_sim gmon.out >gprof.log
  - head cppcheck.log -n 200
  - head gcov.log -n 200
  - head gprof.log -n 200
```

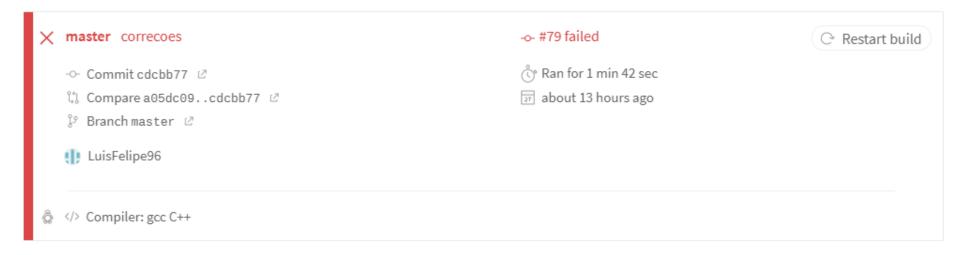
Travis - OK

504* got 408*

1206 end of simulation - 65678 cycles.1207 The command "make test" exited with 0.



Travis - Erro



```
end of simulation - 65663 cycles.

makefile:46: recipe for target 'test' failed

make: *** [test] Error 1

The command "make test" exited with 2.
```

Cppcheck e Gcov

Gprof

```
granularity: each sample hit covers 2 byte(s) no time propagated
1854 index % time self children
                                    called
                                              name
                                                  main [19]
                   0.00
                           0.00
                                  8130/8130
1856 [1]
                                              cycle [1]
            0.0 0.00
                           0.00
                                  8130
                                  8130/8130
                                                  mem_fetch [2]
                   0.00
                           0.00
                   0.00
                           0.00
                                  1049/1049
                                                 mem_read [3]
                   0.00
                                   717/717
                                                 mem_write [4]
                           0.00
                                                  cycle [1]
                   0.00
                                  8130/8130
                           0.00
1862 [2]
                                              mem_fetch [2]
            0.0 0.00
                                  8130
                   0.00
                           0.00
                                                 cycle [1]
                                  1049/1049
1865 [3]
            0.0 0.00
                           0.00
                                  1049
                                              mem_read [3]
                                   717/717
                                                  cycle [1]
                   0.00
                           0.00
                                              mem_write [4]
1868 [4]
            0.0 0.00
                           0.00
                                   717
```