Introduction

This is a set of tools for testing the applicability of Fortran compilers in my project that develops optimization solvers. See Fortran Discourse for discussions.

Platform tested

- Ubuntu 20.04, Intel(R) Core(TM) i7-10610U
- Ubuntu 20.04, Intel(R) Core(TM) i7-4790 CPU

Compilers tested

- :ballot_box_with_check: Absoft Pro Fortran `af95` 2022 (**patch 4**)
- :negative_squared_cross_mark: AOCC `flang` 13.0.0
- :negative_squared_cross_mark: Classical `flang` 7.1.0
- :negative_squared_cross_mark: G95 `g95` 0.94
- :ballot_box_with_check: GNU `gfortran` 9.3.0
- :ballot_box_with_check: Intel `ifort` 2021.5.0
- :ballot_box_with_check: Intel `ifx` 2022.0.0
- :negative_squared_cross_mark: Lahey `lf95` L8.10b
- :ballot_box_with_check: NAG `nagfor` 7.0
- :negative_squared_cross_mark: NVIDIA `nvfortran` 21.11
- :ballot_box_with_check: Oracle `sunf95` 12.6

Compilers to be tested

- Cray Fortran compiler
- IBM Fortran compiler
- LFortran
- NEC Fortran compiler

Usage

The compilers can be tested using the `Makefile` by the commands below. Of course, you need to have the tested compiler installed on your computer, and you may need to edit the `Makefile` to fit your platform.

```
make atest  # Test af95
make dtest  # Test AOCC flang
make ftest  # Test classical flang
make gtest  # Test gfortran
make itest  # Test ifort
make xtest  # Test ifx
make ntest  # Test nagfor
make vtest  # Test nvfortran
make stest  # Test sunf95
```

```
make 9test  # Test g95
make ltest  # Test lf95
```

Contact

Feel free to contact me if you would like to suggest a compiler or have questions about the test. See my homepage for contact information.