

Running program with gfortran compiler on Linux system

- Download the package source file from [MEDOC](#) website :
`1D-semi-infinite-atmosphere-2-level-atom-ALI-2025-10-31.tgz`
- **gfortran** compiler is required
- Unpack the package by typing the following linux command :
`tar -xvzf 1D-semi-infinite-atmosphere-2-level-atom-ALI-2025-10-31.tgz`
- `cd 1D_semi_infinite_atmosphere_2_level_atom_ALI`
- The folder contains the following files : ali.f90, general.f90, lambda_it.f90, lambda_it_simple.f90, makefile, param.f90
- **make**
- `./lambda_it`
- To plot results with **gnuplot** software : commands are in files lambda_it_simple.f90 (fort.92) and ali.f90 (fort.112 and fort.113)
- The folder **results** contains the output files corresponding to a test case to be able to check if your results are good
- Before running the program again, type **make clean**

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