

Minimum Requirements

Hardware

Abinit requires at least 1 CPU, 4Gb of RAM and 4Gb of disk space to perform the calculations of the tutorials and the test suite. The most complex calculations may require more than 10,000 CPUs, more than 1Tb of RAM, and a few Tb of disk space.

Any recent desktop or laptop computer is in principle able to perform calculations with Abinit.

Tools

To be correctly built, Abinit requires a working development environment providing both a C and a Fortran compiler, as well as Python (version 2.7.5 at least, but version 3.8 is recommended).

On desktop and laptop computers, we recommend:

- the [GNU Compiler Collection](#);
- the [Intel Parallel Studio XE Toolchain](#);

which we have extensively tested.

Since the choice is up to the system administrator on HPC environments, we also support the [NAG fortran compiler](#).

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