

Dear Colleagues, dear Fortran Course Participants,

Please be aware, that you need gfortran on your computer. You should also have access to the Fortran 2018 Standard as a PDF document.

The gfortran compiler

For Windows

To install gfortran on your **windows-computer**,

1. please go to the URL
<http://www.equation.com/servlet/equation.cmd?fa=fortran>
and download the latest weekly snapshot as a self-extracting file in the 32-bit or the 64-bit version. The name is e.g.
gcc-10-20200405-64.exe
gcc-12-20220206-64.exe (on 07.02.2022)
The name and version may change every few days.
There might be some Windows security issues, see below.
2. Alternatively we provided a version of this file in
Fortran_Course_Downloads/gfortran_for_Windows
The name is similar to these shown before. The filesize is more than 150 MB!

Download this file and execute it.

You might need administrator privileges.

After finishing the installation, please open a cmd window.

In the window type in

```
gfortran -v
```

You should see as last line

```
gfortran version <version number> <some additional data>
```

Problems with Windows security features

If using Windows 10 the download of the file might not work because of potential security issues.

In this case you have to disable the Windows defender protection settings.

English:

- Start
- Settings
- Update & Security
- Windows Security
- App & browser control
- Reputation-based protection
 - Reputation-based settings
 - Check apps and files: **set to Off**

After downloading the file **set to On** for Check apps and files

Deutsch:

- Start
- Einstellungen
- Update & Sicherheit
- Windows Sicherheit
- App- & Browsersteuerung

→ Zuverlässigkeitsbasierter Schutz

- Einstellungen für zuverlässigkeitsbasierter Schutz
- Apps und Dateien überprüfen: auf **Aus** schalten

Nach Download des Files wieder auf **Ein** schalten

For Linux

On your **Linux machine**, Fortran is installed as part of gcc.

Assure that you have a modern version.

The Fortran 2018/2023 Standards

Furthermore you should download the **Draft** for the Fortran 2018 Standard from

<https://wg5-fortran.org/documents.html>

That is the document [N2146](#).

It is not possible to download the Standard itself [N2162](#) because of copyright rules.

We can also not download the file [N2146](#) and provide the file for you.

The same applies for the proposed Fortran 2023 Standard.

Please see the draft

[N2184_Fortran_202X_Committee_Working_Document_\(Cohen\).pdf](#)

and explanations of the new features in

[N2194_The_New_Features_of_Fortran_202x_\(Reid\).pdf](#)

Do not expect, that existing compiler versions already include these new features.

Best regards

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