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Requirements for running FLACS CFD consequence modelling software version 25

FLACS Technical Requirements

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FLACS is delivered for Microsoft Windows and for Linux

FLACS 25 has been tested on the following platforms:

We test FLACS against Windows 10 Pro and Ubuntu 18x.

All operating systems are supported in their 64bit variants only.

It is expected that FLACS will run on most other Windows and Linux distributions/versions.

Please get in touch with **flacs@gexcon.com** if you encounter problems when installing or using FLACS on a specific distribution or version.

Hardware requirements

- **Processor architecture**: AMD64/Intel 64/x64 (64-bit) CPUs are supported. Intel IA64 (Itanium) and ARM are not supported. From version 25.1, FLACS includes performance improvements of up to 30% on Linux systems, requiring CPU support for the FMA instruction set (available in most CPUs since Intel Haswell architecture, 2013 or later).
- **Internal memory**: 4GB or more recommended.
- **Free hard drive capacity**: 1.5 GB for the software installation and typically 100 GB for simulation data.
- **Graphics card**: A dedicated graphics card with NVIDIA chip set and at least 2 GB of graphics memory, supporting OpenGL 3.3 or higher, is recommended. Graphics cards using, e.g., AMD or Intel chipsets as in most recent integrated GPUs in laptops (e.g. Intel HD4400) will also work in many cases; however Gexcon cannot provide support for these and limitations may apply to the size of the models and/or detail in the 3D rendering due to the limited available video shared memory. Note that on Windows systems with integrated GPUs, running the FLACS graphical user interfaces may incur pre-allocation of main memory (RAM) on the order of 2-3 GB.

Other requirements

It is recommended to use the latest graphics driver version available for the target hardware. To use 3D plot or view types in CASD or Flowvis, a graphics card/driver that supports OpenGL version 3.3 or higher is required. If insufficient OpenGL support is detected, CASD and Flowvis will still run, but some functionality might not work. Installing a recent graphics driver may solve this problem. Check the website of your hardware vendor for relevant updates.

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