



Accelerating research and development is a key priority for many companies. Access to high performance computing can help you carry out large scale CFD simulations and expand your capabilities.

Solutions for CFD

High Performance Computing (HPC) Wales provides access to CFD optimised, highly scalable infrastructure, as well as a number of market leading, open source software packages such as OpenFoam and Fluidity. We also have a small number of agreements with software vendors such as ICON.

Our 17,000 core infrastructure can be optimised for any of your CFD applications.

Benefits

- Significantly increase the speed of computationally heavy simulations
- Reduce your design cycles with quicker iterations
- Improve your processes and quality control
- Reduce the number of prototypes required in testing and development
- Optimise your IT budget by only paying for what you use

Key features:

Intensive computation

With HPC Wales' compute and memory capability, you can carry out extremely compute and memory intensive CFD.

Standard, scalable infrastructure

We provide up-to-date, market leading CFD software including:

- OpenFOAM 2.1/2.2
- Fluidity 4.1
- Gerris
- PISM
- ROMS
- SWAN
- TELEMAR

Proprietary and commercial CFD software can also be run on the system.

Dynamic scalability

Scale your data analytics from one to thousands of cores quickly and with minimal effort. With access to over 17,000 computer cores and a peak processing performance of around 320 Teraflops, you're guaranteed a superior performance, faster analytics and better results.

Why HPC Wales?

Integrated support

We offer a robust on-boarding process and provide all the necessary training and materials to support you in getting the most out of the technology.

No configuration required

Our pre-configured large scale platform allows us to scale and optimise for new software developments, future-proofing your investment and removing the need to build and operate expensive computing systems in-house.

High speed interconnect

Our 40Gb/s Infiniband interconnects provide data transmission up to 4 times faster than ethernet. Perform large scale computation on one platform, without having to shift data around different systems.

What does it cost?

We offer a range of HPC packages to suit your requirements, all of which include access to our CFD packages along with storage and technical support. Please contact us for a quote.

Find out how you could benefit from our services



Contact us for a no obligation consultation:
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