



Science and  
Technology  
Facilities Council

# Scafell Pike

*The UK's most powerful supercomputing  
platform dedicated to industrial engagement.*



# About Scafell Pike

The UK's first Bull Sequana X1000 supercomputer, Scafell Pike is one of the most powerful systems in the world available for industry use and is capable of performing 4.3 quadrillion calculations per second. Experts at the STFC Hartree Centre use it to help companies of all sizes to explore the latest advances in artificial intelligence and high performance data analytics, and ultimately integrate them to improve the productivity of people and processes.



# Impact studies

A photograph of a man and a woman looking at a tablet together. The man is on the left, wearing glasses and a white shirt. The woman is on the right, wearing a brown leather jacket. They are in a dimly lit room with blue ambient lighting. The background shows a grid-like structure, possibly a wall or a screen.

Researchers at the Hartree Centre use the power of Scafell Pike in a computer simulation they developed to predict how liquids will mix together, which can be used to test formulations of home and personal care products such as shampoos and laundry liquids.

The Hartree Centre is working with Ordnance Survey to use aptly named supercomputer Scafell Pike\* in the development and testing of machine learning techniques that get more information from aerial images to improve mapping services. Using machine learning in this way has the potential to bring annual efficiencies of more than £2 million for Ordnance Survey – and they anticipate that this will rise to £8 million per year by 2024.

\*Scafell Pike is England's highest mountain, found in the Lake District in North-West England.

**4329**  
*Tflops (Rpeak)*

**1<sup>st</sup>**  
*Bull Sequana X1000 in UK*

**81,408**  
*cores*

**22**  
*racks*

**96**  
*direct liquid cooled nodes*



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