IMPERIAL COLLEGE LONDON AND UNIVERSITY OF CAMBRIDGE LAUNCH "CORE" TO DELIVER UNRIVALLED UK E-INFRASTRUCTURE CAPABILITY TO INDUSTRY

University alliance delivers UK's leading HPC & big data cloud; combines hardware, software and a comprehensive HPC support and consultancy service focused on UK SMB and enterprise customers

LONDON, 28th June 2012 – Imperial College London and the University of Cambridge announced today the launch of CORE, the UK's most advanced on-demand High Performance Computing (HPC) and data management e-Infrastructure available to both industry and academia. This significant new alliance between two of the world's leading teaching and research institutions will deliver unrivalled HPC and big data cloud resources, combined with comprehensive user support to organisations looking to accelerate research and build tangible competitive advantage.

CORE is a key component of the UK Government BIS-led e-Infrastructure expansion programme aimed at delivering business-ready HPC and big data solutions to industry and academia. The CORE e-Infrastructure cloud amounts to 300 teraFLOPS sustained double-precision computing delivered by over 22,000 Intel processor cores attached to more than 3 petabytes of high performance file system. Accessible from the CORE Cloud are some of the single largest systems in the UK, including the largest and most powerful Intel HPC cluster, the largest single shared memory space and one of the UK's largest NVDIA GPU clusters.

The combined capability of CORE has already helped support organisations build real competitive advantage, as proven by work undertaken by partners including Rolls-Royce, Caterham F1 Team, and Audio Analytic, one of the world's leaders in sound classification, recognition and analysis. "Audio Analytic has harnessed the power of CORE to develop sound packs that can be used by the physical security industry to indentify sounds such as breaking glass or gun shots. The flexible scale out resources provided by CORE combined with excellent technical support has provided us with a step change in compute capability increasing the scope of what we can achieve and reducing time to market" said Chris Mitchell, CEO and Founder, Audio Analytic.

Dr Peter Haynes, CORE Director, Department of Materials and Physics, Imperial College London commented, "CORE is completely unique in terms of its scale and breadth of knowledge. However, what is even more significant has been the team's incredible track record up to this point, working behind the scenes with partners of all sizes, across a wide range of industrial sectors. This makes CORE the most effective business-ready e-Infrastructure service in the UK."

CORE also provides a full portfolio of consultancy offerings for partners looking to deploy their own in-house systems. These consultancy services cover everything from the procurement and design stages, right through to project management, system integration, performance analysis and optimisation.

"CORE is the most comprehensive e-Infrastructure cloud and consultancy service available today, with strong emphasis on business-ready industry focused solutions," explained Dr. Paul Calleja, CORE Director, University of Cambridge. "CORE demonstrates proven UK leadership in HPC and big data design, implementation and service provision for both SMB and enterprise-scale customers across a range of disciplines including engineering, life sciences, materials modelling and digital media. Simply put, CORE lowers the barriers of uptake for users and organisations new to HPC, removing the necessity for specialist HPC staff and costly in-house IT infrastructure."

For more information, please visit www.core-advantage.org, or follow CORE on:
Twitter (www.twitter.com/core_hpc)
Flickr (www.flickr.com/photos/core_hpc)

Editors Notes:

Professor Lynn Gladden, Pro-Vice Chancellor for Research, University of Cambridge, said "The Cambridge and Imperial alliance brings together two of the world's leading teaching and research institutions. CORE is the UK's leading e-Infrastructure consortium providing access to the fastest HPC facility in the UK university sector, as well as all the expertise that accompanies it."

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About University of Cambridge

The University of Cambridge's mission is to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence. Some of the most significant scientific breakthroughs occurred at the University, including the splitting of the atom, invention of the jet engine and the discoveries of stem cells, plate tectonics, pulsars and the structure of DNA. From Isaac Newton to Stephen Hawking, the University has nurtured some of

history's greatest minds and has produced more Nobel Prize winners than any other UK institution with over 80 laureates.

Website: http://www.cam.ac.uk
Twitter: www.twitter.com/Cambridge_Uni

About Imperial College London

Consistently rated amongst the world's best universities, Imperial College London is a science-based institution with a reputation for excellence in teaching and research that attracts 14,000 students and 6,000 staff of the highest international quality. Innovative research at the College explores the interface between science, medicine, engineering and business, delivering practical solutions that improve quality of life and the environment - underpinned by a dynamic enterprise culture.

Since its foundation in 1907, Imperial's contributions to society have included the discovery of penicillin, the development of holography and the foundations of fibre optics. This commitment to the application of research for the benefit of all continues today, with current focuses including interdisciplinary collaborations to improve global health, tackle climate change, develop sustainable sources of energy and address security challenges.

Website: www.imperial.ac.uk
Twitter: www.twitter.com/imperialspark
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