

BIOS IT showcases solutions optimised for Computational Fluid Dynamics at CAE 2019

Submitted by: BIOS IT

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BIOS IT (<http://www.bios-it.co.uk>), a global HPC design and integration house will showcase its range of high-performance solutions, optimised for Computational Fluid Dynamics (CFD) and Computer-Aided Engineering (CAE) workloads at the CAE Conference in Italy on October 28th and 29th.

The 2019 CAE Conference (<https://bios-it.co.uk/events/2019/CAE%202019.aspx>) will illustrate how and where engineering simulation, already pervasive in design and production processes and in the use of products themselves, is inextricably linked to other technologies. Technologies such as High-Performance Computing, Artificial Intelligence and Cloud.

BIOS IT's expertise in such areas will be showcased by way of multiple high-performance solutions and services, optimised for CFD and CAE workloads, both on-premise and in the Cloud. Including, BIOS IT's verified Intel® Select Solution (<https://bios-it.co.uk/partnerfocus/intel.aspx>) which provides a fast path for purchasing and deploying an HPC cluster for simulation and modelling workloads. This solution combines Intel® Xeon® Scalable processors with the Intel® Scalable System Framework (Intel® SSF) and other Intel® technologies and delivers optimised performance for Message Passing Interface (MPI)-based simulation and modelling applications registered with Intel SSF.

Also on show is the AMD powered BigTwin™ (https://bios-it.co.uk/PartnerFocus/amd_epyc.aspx) from Supermicro, a 2U multi-node system supporting the latest AMD EPYC™ 7002 Generation processors, enabling up to 128 CPU cores and 256 threads and with 8x DDR4 memory channels supported by each processor. This is the best memory bandwidth on the market – something which is critical for memory-bound applications like CFD.

In partnership with Cloud providers vScaler (<https://bios-it.co.uk/PartnerFocus/vScaler.aspx>), BIOS IT can offer CFD users an application-specific, cloud environment with the performance benefits of a dedicated supercomputer but at the fraction of the cost. Supporting industry-leading software (ANSYS, OpenFOAM, Pam-Crash and STAR-CCM+), vScaler for CFD is specifically designed to improve access and development efficiency. With ready-to-execute application containers, you can simplify your software setup while delivering faster analysis than legacy desktop workstations.

Live demonstrations (available on BIOS IT booth #45) will showcase the suite of CFD optimised technology that enables a new range of powerful and energy-efficient server options to radically lower CFD houses' TCO through an optimised balance of compute, memory, I/O, and storage resources.

To schedule a meeting at the event, contact us (<https://bios-it.co.uk/contact>) or for more information visit www.bios-it.co.uk (<http://www.bios-it.co.uk>).

About BIOS IT

BIOS IT is a global design house, systems builder and integrated solution provider for enterprise performance computing. We construct bespoke clusters and appliances by handpicking the best components and newest technologies based on specific customer goals. We support well-known organisations at the top

of their research fields, across science, engineering, academia and finance disciplines. Our comprehensive range of products and services include high-performance enterprise servers, storage and networking, on-premise or in the cloud, with associated services, support, hosting and software.

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