## **Accelerated HPC** Simulation Performance

Engineers need access to powerful compute resources to simulate and analyze large, complex models, and do so faster and with greater frequency. High-Performance Computing (HPC) infrastructure based on new 3rd generation AMD EPYC<sup>™</sup> processors with 3D V-Cache<sup>™</sup> technology can increase productivity and efficiency.

## **Performance Per Core Leadership**

23% 47% 88%



**Ansvs Fluent® Fluid Dynamics** 

> **Ansys LS-DYNA® FEA Explicit**

> > **Ansvs CFX®** Fluid Dynamics



AMD has worked with Ansys to make sure our joint customers can leverage the 3rd Gen AMD EPYC processors for structural mechanics simulation. By integrating AMD Optimizing CPU Libraries (AOCL) in Ansys Mechanical, customers can run complex simulations considerably faster, leading to higher quality and more efficient designs for planes, cars, electrical devices and a range of other products." - WIM SLAGTER, DIRECTOR OF STRATEGIC PARTNERSHIPS AT ANSYS

## **Optimized Performance with AOCL**



Supporting Sustainability

Compared to competitive environments, it is estimated that running Ansys CFX on an AMD EPYC platform can reduce energy consumption and carbon emissions:4



Fewer Servers





-81 Acres Of U.S. Forest Annually (equivalent carbon sequestration)

nsys



51% Lower 3YR TCO

Source: See MLNC (10.6, -0.14, and -0.13 at www.ami.com/unitations/expc?)ss Source: www.ami.com/sectom/files/documents/ami.expc.7003.3d -scathe-pb-aure-thi/d-amys-fluent.pdf Possite sectomed and or 29 PPO 72733 services was 20 PME Alone Stock services running 4600 ctr50 bios per day. See AMD EPC claim MLNCTO-001 at <u>ittrac-www.ami.com/encidem/encid</u>