



## Ansys and AMD Collaborate to Speed Simulation of Large Structural Mechanical Models Up to 6x Faster

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*Ansys delivers one of the first commercial finite element analysis solvers supporting AMD Instinct™ accelerators*

### / Key Highlights

- Ansys is investing in graphics processing units (GPUs) as an emerging, sustainable and powerful technology
- GPUs are designed to provide exceptional performance for data centers and supercomputers to speed development of more efficient designs for cars, planes and consumer products

PITTSBURGH, Aug. 24, 2022 /PRNewswire/ -- [Ansys](#) (NASDAQ: ANSS) announced that [Ansys® Mechanical™](#) is one of the first commercial finite element analysis (FEA) programs supporting [AMD Instinct™ accelerators](#) the newest data center GPUs from AMD. The AMD Instinct™ accelerators are designed to provide exceptional performance for data centers and supercomputers to help solve the world's most complex problems.



To support the AMD Instinct accelerators, Ansys developed APDL code in Ansys Mechanical to interface with AMD ROCm™ libraries on Linux, which will support performance and scaling on the AMD accelerators.

Ansys' latest collaboration with AMD resulted in a solution that, according to Ansys' tests, significantly speeds up simulation of large structural mechanical models — between three and six times faster for Ansys Mechanical applications using the sparse direct solver. Adding support for AMD Instinct accelerators in Ansys Mechanical gives customers greater flexibility in their choice of high-performance computing (HPC) hardware.

"Today's large, complex engineering challenges require quick, predictively accurate simulations that scale," said Brad McCredie, corporate vice president, Data Center and Accelerated Business Unit at AMD. "The collaboration between Ansys and AMD can enable a speed boost for some applications, enabling our joint customers to run complex structural simulations that drive higher quality, more efficient designs for cars, planes, and a range of other products while meeting their deadlines."

"Ansys' collaboration with AMD will help enable mutual customers to leverage cutting-edge GPU hardware for Ansys Mechanical applications in the data center, both on-premises and in the cloud to reduce time to market and deliver more optimal solutions," said Shane Emswiler, senior vice president of products at Ansys. "This work is well-aligned with our high-power computing strategy to invest deeply in GPUs as an emerging, sustainable, powerful technology for Ansys simulations."

### / About Ansys

When visionary companies need to know how their world-changing ideas will perform, they close the gap between design and reality with Ansys simulation. For more than 50 years, Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, the next great leaps in human advancement will be powered by Ansys.

Take a leap of certainty ... with Ansys.

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## / Contacts

Media Mary Kate Joyce  
724.820.4368  
[marykate.joyce@ansys.com](mailto:marykate.joyce@ansys.com)

Investors Kelsey DeBriyn  
724.820.3927  
[kelsey.debriyn@ansys.com](mailto:kelsey.debriyn@ansys.com)



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