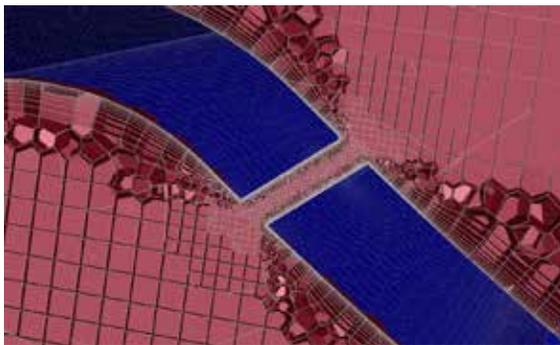


Simulation in the News

ANSYS 19.2 Delivers Faster Problem-Solving Capabilities Across the Entire Portfolio

From innovative fluids meshing technology to improved workflows for safety analysis to an updated system coupling engine, the newly released ANSYS 19.2 enables customers to solve their most difficult product development challenges faster than ever. This latest release empowers more users to accelerate the design process with new single-window, efficient workflows and patent-pending advanced meshing technology for computational fluid dynamics (CFD). ANSYS 19.2 also includes new processes for developing embedded software for safety-critical applications, and dramatic computational speed and user experience improvements for solving automotive radar scenarios, digital twins, 3D design exploration and structural modeling.

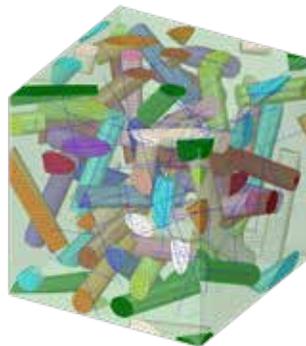


“ANSYS Fluent meshing in 19.2 has been extremely beneficial to us in terms of turnaround times compared to the previous versions, especially in handling large, complex geometries. The resulting mesh also meets and exceeds our quality requirements in every aspect. All of these put together have greatly improved our productivity, while reducing manual efforts required.”

– Vidyand Kesti, CFD specialist, Mann and Hummel



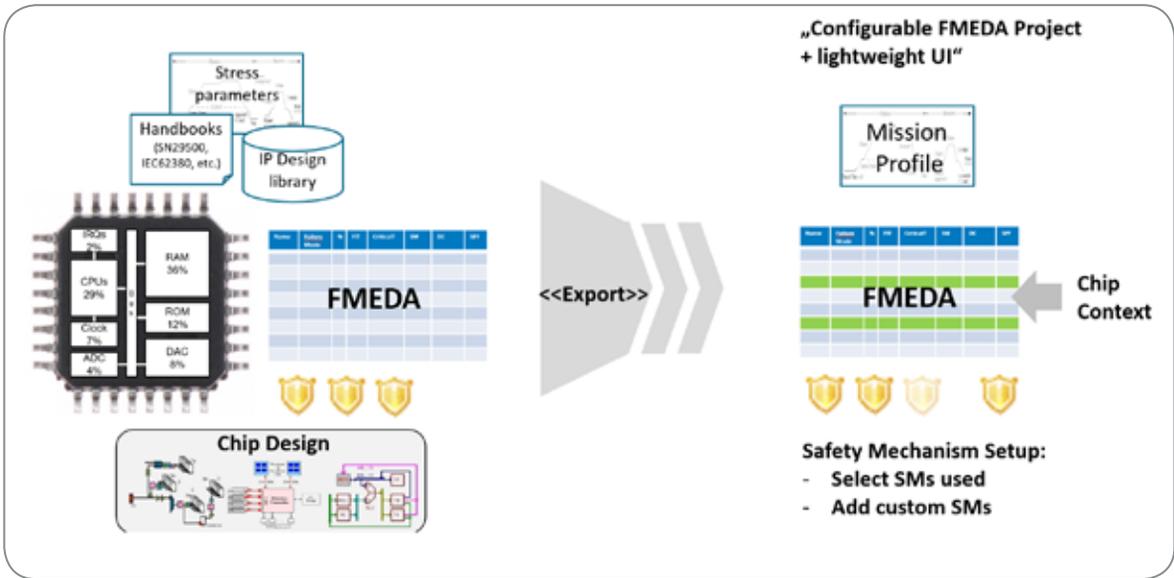
ANSYS VRXPERIENCE takes predictive validation of vehicle systems to the next level – meeting any virtual reality simulation and validation need for autonomous vehicle simulation.



The new material designer feature for structural simulations can create detailed models of sample materials and then calculate equivalent properties for use in larger-scale simulations.



ANSYS 19.2 Delivers Faster Problem-Solving Capabilities Across the Entire Portfolio



“Through the use of task lists and libraries, medini analyze has helped Allegro improve the quality and standardization of safety analysis across business units, while at the same time increasing efficiency through re-use.”

– Paul Amons, functional safety manager, Allegro MicroSystems

AERODYNAMIC SIMULATION REVEALS BEST POSITION IN A PELOTON OF CYCLISTS

HPC Wire, July 2018

The position of a cyclist in a race could affect its outcome. But what is the best position? Researchers at Eindhoven University of Technology and KU Leuven, led by Professor Bert Blocken, ran a 3-billion-cell ANSYS



Fluent simulation on a Cray computer to find out. By determining the flow pattern between each cyclist in the peloton, the team found that the riders at the core of the peloton experience much less drag than was previously expected. This was the largest CFD model ever performed for sports.



ANSYS, SAP SPIN DIGITAL THREAD BETWEEN ENGINEERING AND INDUSTRIAL OPERATIONS

Digital Engineering, July 2018

ANSYS is pairing its digital twin technology with SAP’s cloud platform and manufacturing and asset management software portfolio to create a platform to help manufacturers optimize operations and maintenance based on real-time engineering insights.

VOLKSWAGEN BREAKS PIKES PEAK RECORD USING ANSYS TECHNOLOGY

Scientific Computing World, July 2018

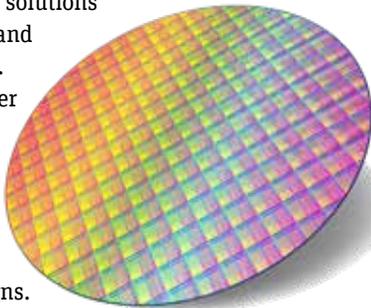
Volkswagen Motorsport shattered the time record at the Pikes Peak International Hill Climb with the help of ANSYS simulation solutions. The Volkswagen I.D. R Pikes Peak race car — their first-ever fully electric race car — crossed the finish line in 7.57.148 minutes. Using ANSYS software, Volkswagen Motorsport engineers conducted complete virtual drive tests of the entire race and optimized the battery system's thermal properties with minimal weight and aerodynamic drag loss. ANSYS solutions also enabled engineers to replicate the course's extreme driving conditions



GLOBAL SEMICONDUCTOR LEADER HISILICON LEVERAGES ANSYS TO DRIVE PRODUCT INNOVATION

TIE Silicon Valley, July 2018

Global semiconductor leader HiSilicon Technologies Co. is innovating the next generation of mobile, networking, artificial intelligence and 5G products by applying ANSYS solutions to power integrity and reliability analysis. ANSYS' 7-nanometer customers deploy ANSYS RedHawk-SC for signoff of their most complex products and designs.



SAMSUNG FOUNDRY CERTIFIES ANSYS FOR SELF-HEAT, POWER INTEGRITY AND ELECTROMIGRATION SOLUTIONS

ANSYS.com, June 2018

Customers of Samsung Foundry and ANSYS will create the next generation of robust and reliable electronic devices thanks to Samsung Foundry's

certification and adoption of ANSYS solutions for power integrity and reliability analysis. This certification enables extraction, static and dynamic voltage drop analysis, self-heat and electromigration analysis for both power and signal nets for Samsung Foundry's latest 7-nanometer Low Power Plus (7LPP) lithography process technology.



SPARC RESEARCH, ANSYS AND F1 COMPUTER SOLUTIONS JOIN FORCES TO MODERNIZE MISSILE PROPULSION DESIGN

MarketsInsider, August 2018

SPARC Research has partnered with ANSYS to leverage modern multiphysics analysis tools in the design and optimization of rocket and ramjet engines. The company, a member of the ANSYS Startup Program, hopes to reduce the time from requirement generation to prototype demonstration through simulation.

