Flying High With ANSYS: ANSYS Achieves Aerospace Milestone

April 11, 2017

PITTSBURGH, April 11, 2017 /PRNewswire/ -- From head-up cockpit displays to easier landing gear operations, airplanes are getting safer than ever thanks to ANSYS® (NASDAQ: ANSS) engineering embedded code software. Manufacturers have relied on ANSYS to confidently design, simulate, generate and test embedded code for over 100 qualified aerospace applications – more than any other engineering software company. ANSYS software enables more organizations to reach certification faster and accelerate time to market.

image

Embedded code is becoming more complex – increasing product complexity and risk. Manufacturers must meet performance targets and comply with industry regulations to ensure critical equipment meets safety standards. Companies are using ANSYS qualified solutions for embedded software to design, simulate, generate and test embedded code for over 100 aerospace applications that have been certified under DO-178B and DO-178C. This standard ensures that safety-critical equipment meets stringent safety criteria and is mandated by government organizations worldwide, including the Federal Aviation Administration, the European Aviation Safety Agency, the Civil Aviation Administration of China and Transport Canada.

"No other engineering simulation company comes close to this milestone," said Eric Bantegnie, vice president of ANSYS' systems business unit. "By our estimates, there are several thousand aircraft flying with ANSYS SCADE generated code onboard. Customers who leverage ANSYS solutions reap several significant benefits – they meet international standards and speed up the embedded code development process, ultimately reducing the cost for certification. ANSYS also provides all the tools they need to have confidence that the code will perform as expected."

The applications certified using ANSYS solutions cover aerospace and defense applications from nose to tail, including full authority digital engine control systems, braking and landing gear systems, flight controls, cockpit and head-up displays, power management systems, ground stations and mission systems. Certification can take up to five years when using manual code development methods, from concept phase to certification, for each specific application. ANSYS meets international standards – enabling companies that employ ANSYS qualified embedded software tools to reach certification faster— a two-times speed-up — and reduce overall embedded software development and verification costs by 50 percent.

"We found that when requirements changed during late-stage development, human errors were causing a schedule and cost slip. ANSYS' model-based design cut down the cost as well as improved product quality," said Raviraj Shivappa, group vice president of software engineering, Meggitt USA. "We thought we would get back the dollars invested in the toolset on our third project with ANSYS, but we recouped our costs on the first two projects completed."

About ANSYS, Inc.

If you've ever seen a rocket launch, flown on an airplane, driven a car, used a computer, touched a mobile device, crossed a bridge, or put on wearable technology, chances are you've used a product where ANSYS software played a critical role in its creation. ANSYS is the global leader in engineering simulation. We help the world's most innovative companies deliver radically better products to their customers. By offering the best and broadest portfolio of engineering simulation software, we help them solve the most complex design challenges and create products limited only by imagination. Founded in 1970, ANSYS employs thousands of professionals, many of whom are expert M.S. and Ph.D.-level engineers in finite element analysis, computational fluid dynamics, electronics, semiconductors, embedded software and design optimization. Headquartered south of Pittsburgh, Pennsylvania, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

ANSYS and any and all ANSYS, Inc. brand, product, service and feature names, logos and slogans are registered trademarks or trademarks of ANSYS, Inc. or its subsidiaries in the United States or other countries. All other brand, product, service and feature names or trademarks are the property of their respective owners.

ANSS-T

Contact	Media	Amy Pietzak
		724.820.4367
		amy.pietzak@ansys.com
	Investors	Annette Arribas, CTP
		724.820.3700
		annette.arribas@ansys.com

To view the original version on PR Newswire, visit:http://www.prnewswire.com/news-releases/flying-high-with-ansys-ansys-achieves-aerospace-milestone-300437396.html

SOURCE ANSYS, Inc.