Free Extension Designed to Export Ansys Mechanical Results as Color 3MF Files for Additive Manufacturing Released by PADT

Custom Plugin Allows Users to Create 3D Printed Full-Color Models with Results Contours

TEMPE, Ariz. - Aug. 31, 2021 - *PRLog* -- PADT, a globally recognized provider of numerical simulation, product development, and 3D printing products and services, is pleased to announce the initial release of the Ansys Mechanical extension, AM Result Printer. Written by PADT's Scientific & Technical Computing team in the Ansys Customization Toolkit (ACT), AM Result Printer allows users to select any Ansys Mechanical results they have extracted from their model and output a 3D manufacturing format, or 3MF, file. The extension is available on the Ansys Store today.

"PADT is an industry leader in off-the-shelf and custom 3D printing and simulation tools and products," said Tyler Shaw, PADT's VP of Engineering. "When customers requested a way to export Ansys Mechanical results as color 3MF files, we saw an opportunity to develop a custom program and share it with our community for free."

The PADT Scientific & Technical Computing team work on small extensions like the AM Result Printer, large standalone programs, and a multitude of tools that make simulation more efficient and useful. The AM Result Printer extension was written by Matt Sutton, PADT's Lead Developer for Scientific & Technical Computing using the tools provided by Ansys through their API and several publicly available libraries for working with tessellated geometry and the 3MF format.

Any Ansys Mechanical user can install the extension for free by first downloading it from the Ansys Store where it is listed as "AM Result Printer." The download includes instillation instructions. Once installed, users can easily add an AM Result Object to any result object and then create the 3MF file. This file can then be used in any additive manufacturing system that support the 3MF format and prints in full color, like the Stratasys J55, J826, J835, and J850 PolyJet systems.

"This simple program is a fantastic example of how our software experts, who are also Ansys experts, create applications that greatly enhance the already strong capabilities of Ansys products," said Sutton. "We're proud to make this powerful tool available to the Ansys user community."

For more information on how to customize Ansys programs or to speak to PADT for help with writing custom tools and programs, please visit the PADT website at www.padtinc.com, contact info@padtinc.com or call 480.813.4884.

About PADT

PADT is an engineering product and services company that focuses on helping customers who develop physical products by providing Numerical Simulation, Product Development, and 3D Printing solutions. PADT's worldwide reputation for technical excellence and experienced staff is based on its proven record of building long-term win-win partnerships with vendors and customers. Since its establishment in 1994, companies have relied on PADT because "We Make Innovation Work." With over 90 employees, PADT services customers from its headquarters at the Arizona State University Research Park in Tempe, Arizona, and from offices in Torrance, California, Littleton, Colorado, Albuquerque, New Mexico, Austin, Texas, and Murray, Utah, as well as through staff members located around the country. More information on PADT can be found at www.PADTINC.com.

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