LEDAS Launches Early Access Program (EAP) for its 3D Geometric Solver LGS 3D

A release of the first three-dimensional Geometric Solver beta-version of the LEDAS Company is now available for testing and usage.

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The Three-dimensional Geometrical constraint-based Solver of the LEDAS Company (LGS 3D) is designed to be an effective and affordable component for assembly and 3D drawing applications to combine complete functionality, competitive performance and superior intelligence in three-dimensional engineering domain. The Early Access Program will allow its participants to influence further LGS 3D development according to their business needs, software requirements, and specifications; get ready-to-use solution with the 3D LGS release or even earlier; evaluate 3D LGS for free and buy license for full commercial version under special terms; have access to LGS 3D and, consequently, plan their development and market activities right now.

Geometric modeling is widely used in many software products, including fundamental usage in CAD/CAM/CAE/PLM systems. Other domains of applications include computer games, geometric theorem proving, molecular modeling, publishing, etc. A Geometric Constraint Solver is a computation engine that supports creation and modification of geometric models by means of (explicit or implicit) constraints. It moves and rotates objects to positions where all constraints are satisfied and that are not far from the original positions. Typical geometric objects are points, lines, circles, curves, planes and arbitrary surfaces. Objects can be fixed in an absolute coordinate system or with respect to each other (so-called rigid sets of objects). Geometric constraints include logical constraints between geometric entities (like incidence, parallelism, tangency, symmetry, etc.), dimensional constraints (that specify the required values for given distances, radii, angles), or engineering constraints.

LGS 3D is a C++ class library that runs under Windows 2000 and XP (versions for Linux, FreeBSD, and AIX platforms are available under request). It can be integrated (via its API written in C) into a broad range of software applications. A sample test application for LGS 3D called Lege'n'd 3D is also available for the EAP participants. It was created with the Open CASCADE open-source framework. The Lege'n'd 3D application can be used to test the entire functionality of the LGS 3D without any integration of the solver into other software packages. A set of representative examples for Lege'n'd 3D is also available and will be extended within the EAP.

During the LGS 3D EAP period, all registered EAP participants can download for free the latest versions of LGS 3D and Lege'n'd 3D software, the related documentations, examples, any updates and fixes. The LEDAS LGS 3D EAP team will be happy to receive any comments, questions, and examples of using that help us to improve the quality of our software. To register in the LGS 3D EAP and to download the software and documentation for it please visit our web site at http://lgs3d.ledas.com.

We are glad to mention that several companies have already started the evaluation of LGS 3D. The joint projects will allow our partners using LEDAS Geometric Solver within their own software products to support assembly constraints, constraints for 3D drawing, and etc. On the other hand, LEDAS is able to perform real life industrial testing with data set provided by our partners to improve usability, performance and quality of our Geometric Solver. We hope that the number of EAP LGS 3D participants will be constantly growing. Please look for LEDAS news and press releases on the CAD/CAM/CAE news websites and, certainly, on the website of LEDAS www.ledas.com.

About LEDAS

LEDAS Ltd. is an independent software company founded in 1999 and located in Novosibirsk, Russia. LEDAS developed a state-of-the-art proprietary technology based on constraint programming, and applies it for PLM (Product Lifecycle Management) tasks, including CAD/CAM domain. Information on LEDAS is available on the Internet at: http://www.ledas.com

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