

Press release



FOR IMMEDIATE RELEASE

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PSE releases gPROMS v3.2: modelling, usability and solution power

Powerful custom modelling within a flowsheeting environment

LONDON, 14 July 2009 --- Process Systems Enterprise (PSE), today released version 3.2 of the world-leading gPROMS advanced process modelling (APM) software.

gPROMS is widely used by large process industry companies in the oil & gas, chemicals and petrochemicals, power generation, clean energy, food & beverage, consumer products, pharmaceutical and other process sectors. Key applications are accelerating innovation, managing development risk and optimising process design and operation through the application of high-accuracy mathematical models of processes and products.

The new version contains significant enhancements to the ability to handle discrete logic within the equation-oriented modelling environment, as well as numerous productivity, speed and robustness enhancements.

PSE Managing Director Costas Pantelides says “v3.2 continues our rollout of the 3rd generation advanced process modelling technology. This combines the best of both worlds for users, by delivering gPROMS’s sophisticated custom modelling capabilities within a flowsheeting environment familiar to process engineers.”

Building on gPROMS’ already strong capabilities for modelling and optimising both complex physics and discrete operating procedures, the new version allows each physical model to invoke discrete logic that is automatically triggered for every instance of the model included in a flowsheet. This allows, for example, gPROMS library models to include sophisticated supervisory controllers, whose execution is completely transparent to end-users.

v3.2 contains significantly-enhanced diagnostics that make information more easily accessible both for model developers and users. These include facilities for diagnosing over-and under specification and making intelligent suggestions for the choice of specification variables. There is improved analysis and assistance for numerical failures during execution, as well as improved information at the flowsheet level during model construction.

There are a number of usability enhancements aimed at simplifying the creation and maintenance of complex flowsheets. These range from minor improvements such as the ability to align flowsheet elements to the ability to use text array indices consistently throughout gPROMS, including dialogue specifications,

For results presentation, a new data export facility provides semi-automated selective export of variables to postprocessing facilities such as MS Excel for – for example – pivot table analysis. In addition to providing formatted output and addition calculations, this helps reduce model size and execution time.

Numerical enhancements and exact model reduction techniques mean that many classes of problem now run up to 20% faster in less memory, building on gPROMS’s already renowned reputation for speed and robustness.

Prof. Pantelides adds “PSE continues to be committed to leading the way in providing process industry companies with facilities to capture their IP in models and systematically use these to generate value at all levels.”

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Photos and materials: www.psenterprise.com/news/pr090306.html

Notes for Editors – full distribution version

Photos and other materials are available at www.psenterprise.com/news/pr090306.html

About Process Systems Enterprise Ltd

PSE (www.psenterprise.com) is one of the world's foremost providers of Advanced Process Modelling (APM) software and Model-Based Engineering (MBE) services to the process manufacturing industries. APM uses high-accuracy mathematical models of process equipment and phenomena to provide high-quality numerical information for decision support in process innovation, design and operation and to capture process intellectual property [IP].

Use of PSE's technology and services within MBE programmes results in faster innovation, improved designs of processes and products, enhancement of existing operations and more effective R&D and experimental programmes. Results are achieved with relatively low investment compared to alternative approaches – where these exist – with rapid return on investment and transfer of modelling know-how to industry.

PSE's global customer base of process manufacturing companies and their technology suppliers is served by operations in the UK, USA, Germany, Japan and Korea, and agencies in China and India. PSE is a spin-out of Imperial College London, and its software is used in some 200 research organizations around the world.

The company's own ability to innovate was recognized with the receipt of the prestigious 2007 Royal Academy of Engineering MacRobert Award for Engineering Innovation.

About gPROMS

gPROMS[®] is the world's leading Advanced Process Modeling (APM) environment. It is used to provide high-quality information for decision support in innovation, design and operation across all sectors of the process industries, with particular focus on modeling of complex operations such as reaction, crystallization, polymerization and fuel cell processes, where PSE supplies state-of-the-art open model libraries.

Companies apply gPROMS to reduce time-to-market for new processes or products, improve designs, enhance production, reduce capital and operating expenditure and comply more effectively with safety, health and environmental requirements.

gPROMS is applied across the 'process lifecycle', from laboratory experimentation, through process and detailed design, to online operation, and is central to the emerging technology of Model Based Innovation.

PSE is committed to maintaining gPROMS at the leading edge of modeling technology.

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