acslX

Power to Predict

Integrated Products

- Microsoft Excel Addin
- Simulink Block Wizard
- PK/PD/PBPK Toolkit
- acslX for Linux and cluster computing extensions
- MC Modeler for Bayesian analysis and population modeling
- SBML language import

System Requirements

- Windows 2000, XP, Vista
- 1 GB RAM
- 150 MB free HD space
- Network card

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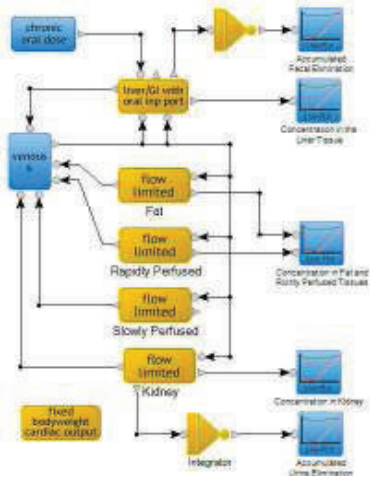
AEgis TECHNOLOGIES

New Features for 2009

Global Sensitivity Analysis
A collection of M functions is now included with the acslX Optimum suite of tools which implements Global Sensitivity Analysis (GSA) using the Fourier Amplitude Sensitivity Test (FAST) and Extended Fourier Amplitude Sensitivity Test (EFAST) techniques. These algorithms estimate model output variability arising from variation in model inputs over the entire parameter space, and account for second and higher-order interaction effects between the parameters. The GSA functions complement the local sensitivity analysis features which have been part of acslX Optimum since the initial release.

Linear Analysis
M functions for linearization and analysis of models developed in acslX are now available, including functions for the following:



- Computation of Jacobian elements (model state space) using numerical differentiation
- Conversion to/from multiple model representations: state space, transfer function, zero-pole-gain
- Generation of Bode, Nichols and Nyquist plots
- Conversion between various units: gain/decibels, radians/degrees
- Performing trim of system (i.e., adjust states to drive derivatives to zero)

New MCMC Capabilities
A new modeling language is available in acslX which extends the M language with operators for designating models based on statistical distributions. These statistical models are sampled using the acslX MCMC functions. Newly added MCMC samplers in acslX include Adaptive Metropolis, Delayed Rejection, and Differential Evolution Monte Carlo.

Streamlined acslX User Interface
A new version of acslX featuring an alternative, streamlined user interface will be previewed in March 2009. This version of acslX will provide an alternative to the full Integrated Development Environment and will allow users to create, build and execute models without creating a workspace or project. Model files may be downloaded from websites and results plotted with only a few mouse clicks. An integrated web browser allows seamless integration of the simulation environment with web-based modeling resources.

Cloud-based Computing using acslX
Versions of acslX are now hosted on the Amazon Elastic Compute Cloud. This provides an on-demand capability for running computationally intensive acslX analyses using the Amazon Compute Cloud. This additionally provides a platform by which custom-configured systems (e.g., multiprocessor systems) or custom acslX builds can be made available to users. Compute time on the Amazon Cloud using acslX resources is purchased on-demand and on an hourly basis.

An affordable, professional alternative to open source

Individual user prices for acslX start at $500. Corporate site licenses are available starting at $7500. Consulting and training are also available.

More information about acslX is available at www.acslX.com, 800-647-ACSL or info@acslX.com

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