**CADSWES Maintenance Accomplishments: January 2017**

**Patrick Lynn**

**I New/Enhanced Software**

B. Unfunded software development and documentation

New RPL editor "Rename variable/argument" action

CADSWES staff completed implementation of a new "Rename..." operation that provides an easy way to rename all occurrences of a variable or argument within a RPL editor. The “Rename…” operation is available in the right click context menu when the current RPL selection is a variable or argument name, whether that name is part of the declaration of that name or is a reference to the value associated with the name. Note that names can be appear within statements (FOR and WITH variables names), expressions (FOR and WITH variable names), and functions (argument names). When the new operation is invoked, RiverWare first presents a simple dialog that displays the number of occurrences of the name to be replaced and allows the user to type in the new name. Once the user has entered a new variable name and clicked the OK button, the old name is replaced with the new name throughout the scope of the name’s declaration.

Activities for the month of January include: software refactoring, bug fixing, extension of functionality to function constraints, and simplification of the Rename dialog.

**II RiverWare Software Maintenance**

Software Updates, Bug fixes (not associated with new development)

* Bug 5867: Automatically generated post-optimization ruleset is invalid
* Bug 5872: Turbine Release Extrapolation during Sim results in RBS interpolation error
* Bug 5875: Removed access to old Plot Page editor (supporting Robynn)
* Bug 5886: Crash saving a model after deleting an object
* Bug 5899: Crash when using Ctl-Z to undo in initialization rule

Development tool improvements

CADSWES staff (Edie Zagona, Bill Oakley, Jim Pasquotto, Patrick Lynn) met with Orrie Gartner and Vasa Dasan of CU’s Office of Information Technology (OIT) to share with them a description of the software development activities at CADSWES and to discuss with them how OIT services might help support those activities. As a result of that meeting, CADSWES have begun exploring the option to move the internally hosted git repositories to the BitBucket Server hosting supported by OIT.

Hardware maintenance

The disk drive of a software development machine began to show signs of failure and CADSWES staff began the process of backing up and replacing the drive.