



Center for Advanced Decision Support for
Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

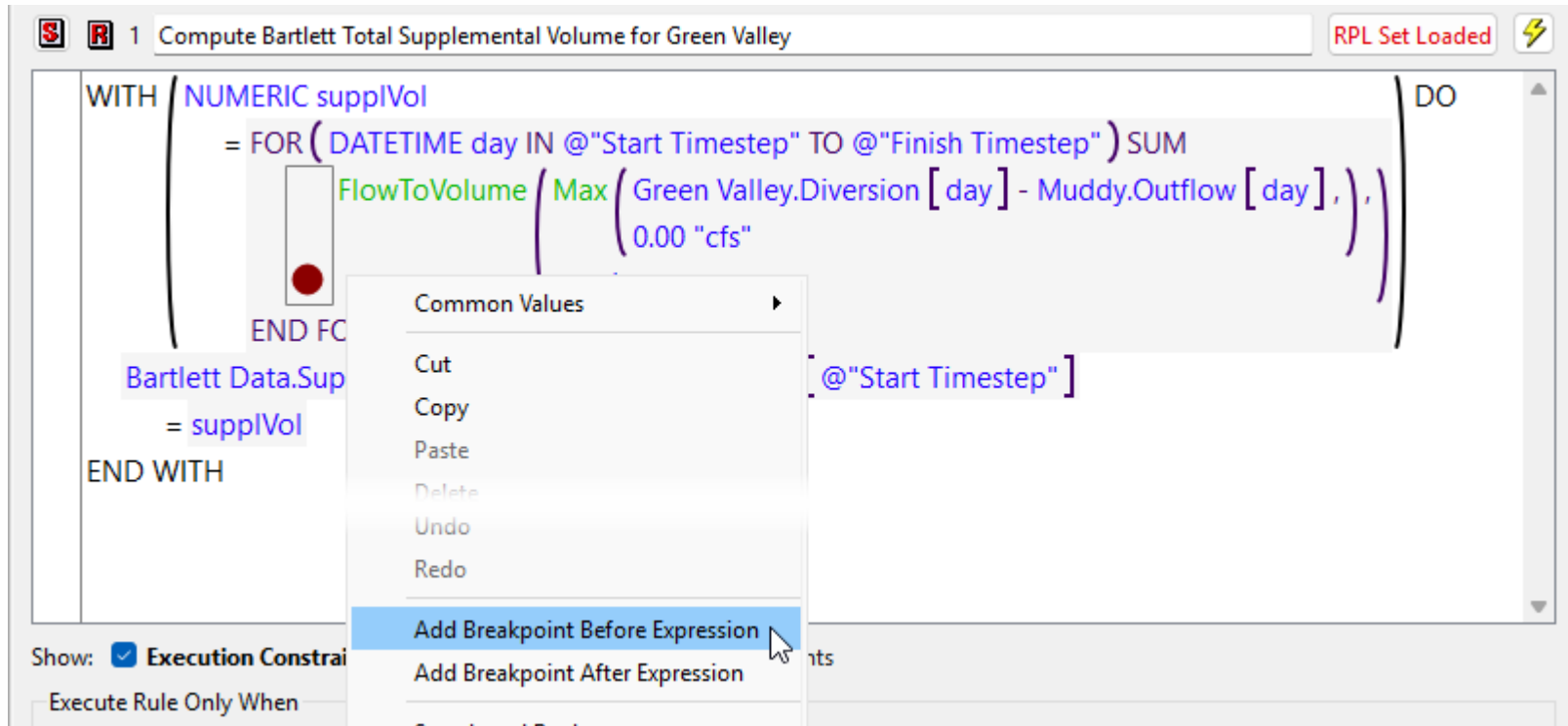
RPL Enhancements

2026 RiverWare User Group Meeting

Presenter: Mitch Clement

RPL Debugger – Breakpoints on Expressions

- Now add breakpoints before or after expressions



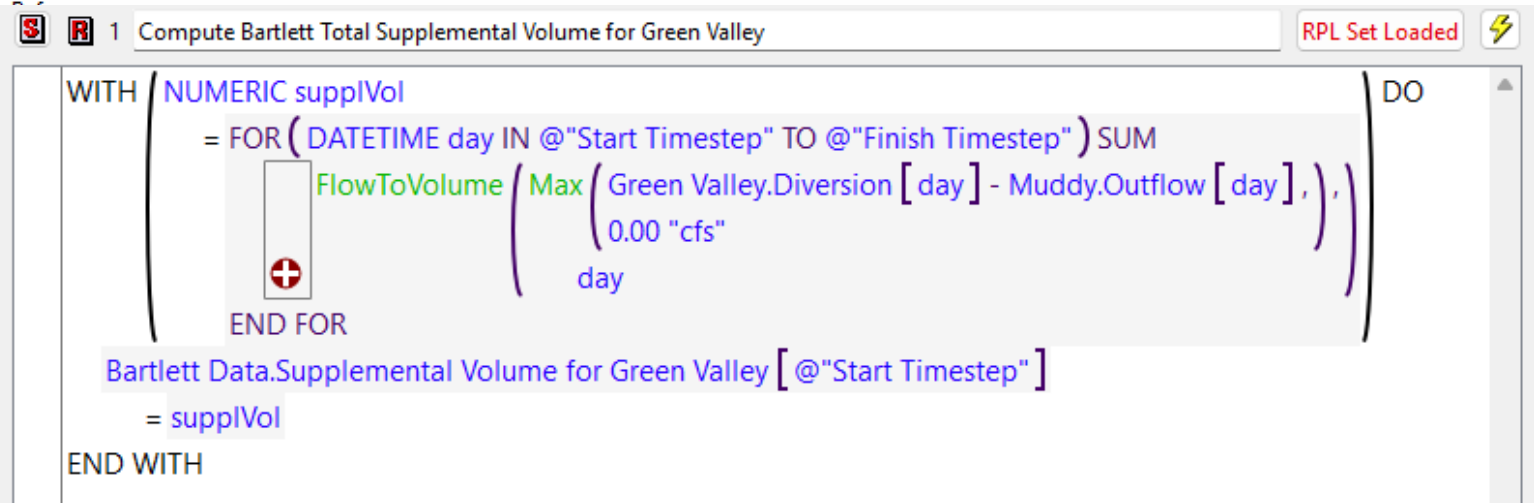
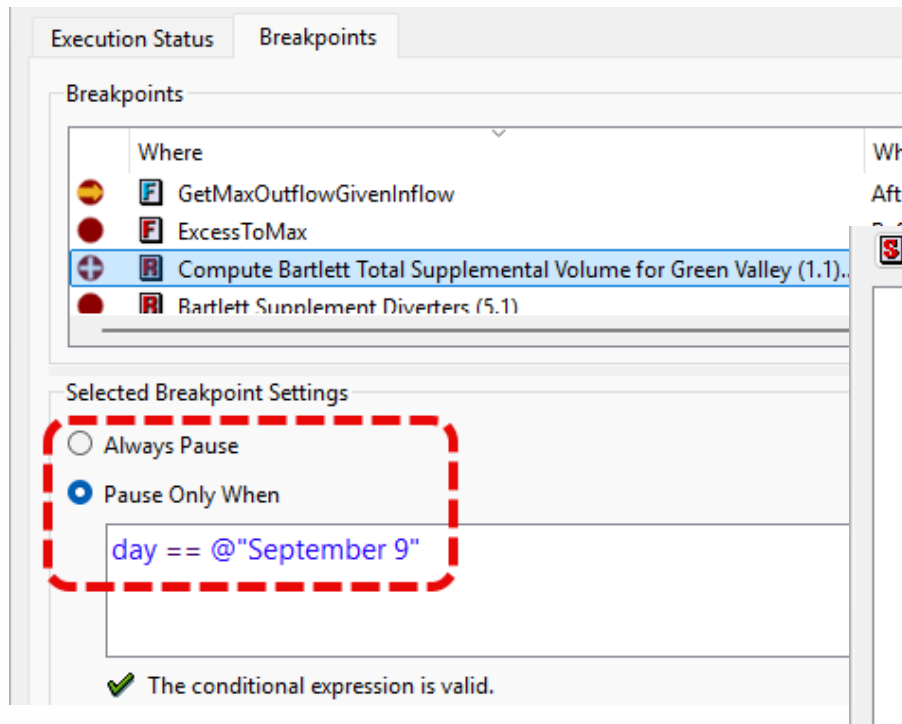
2025 UGM
Request

- Easier debugging within FOR loops

RPL Debugger – Conditional Breakpoints

- Add logic to only pause if the specified expression is true
- Example: pause for a specific reservoir in a FOR loop over many reservoirs

2025 UGM
Request



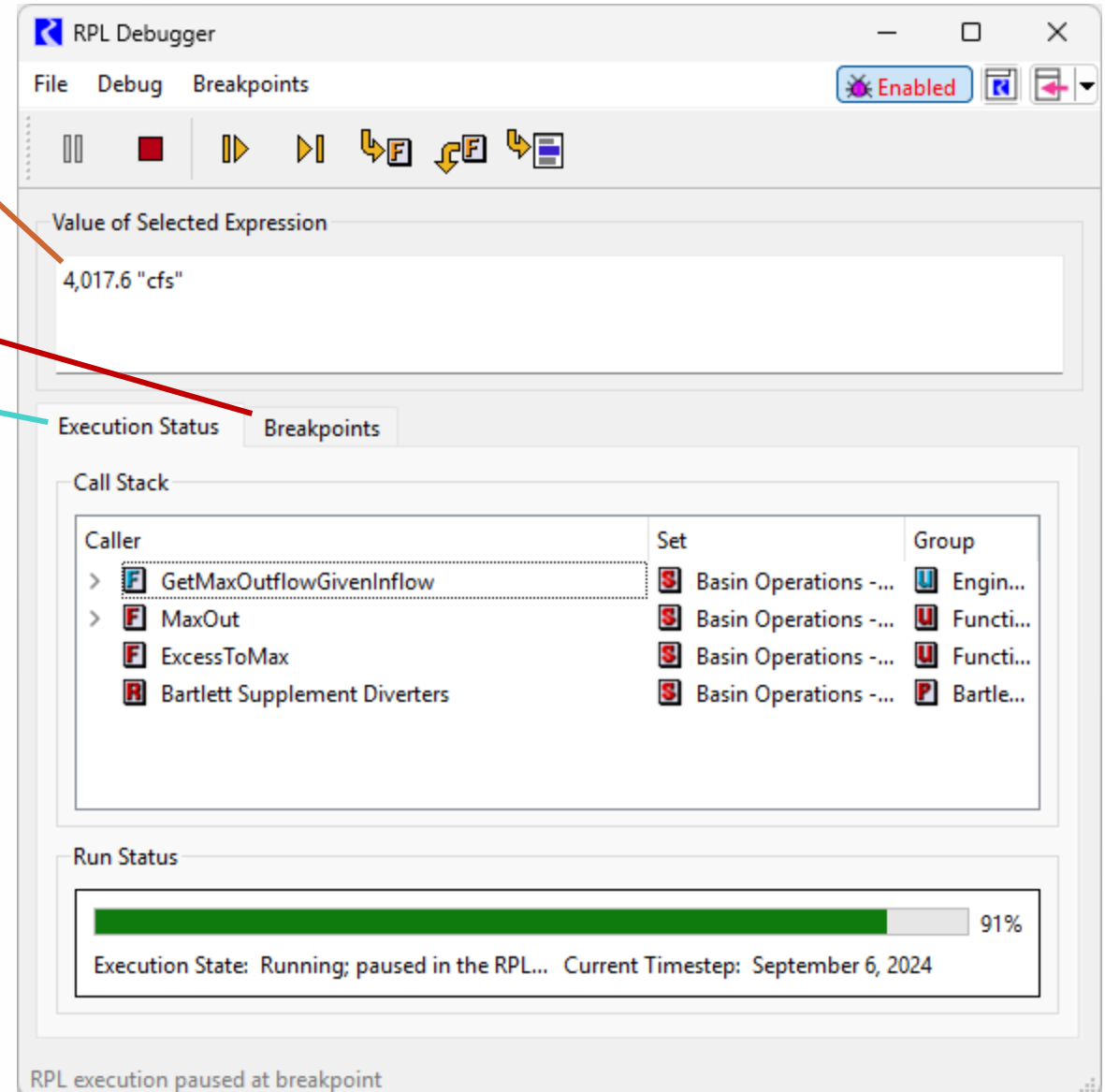
RPL Debugger – Updated Layout

Value of Selected Expression
moved to top

Separate tabs for

- Breakpoints
- Call Stack

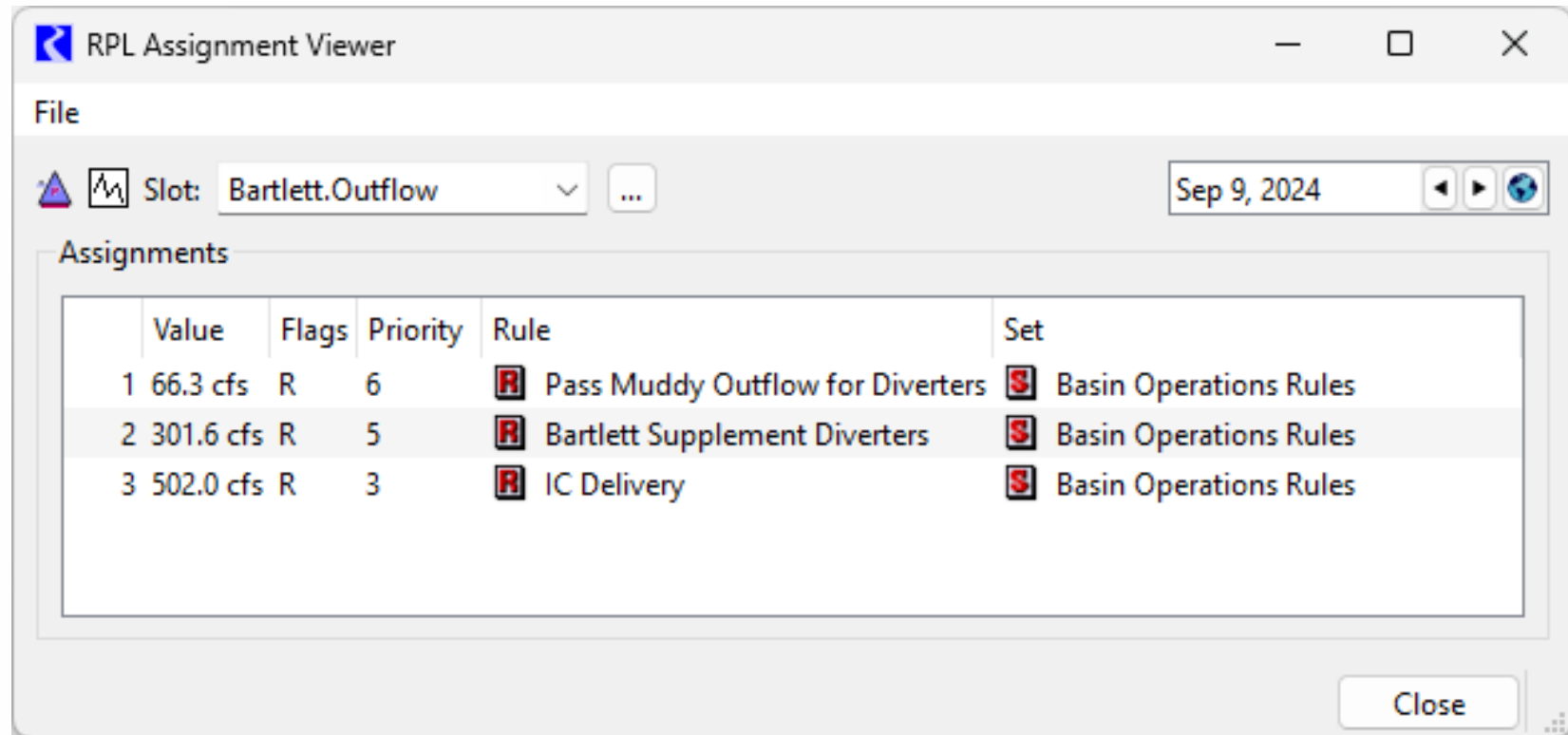
Improved default sizing



RPL Assignment Viewer

- Show all rules that set a slot on a selected timestep
- For every assignment show the...
 - Rule
 - Priority
 - Value set

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The screenshot shows the 'RPL Assignment Viewer' window. At the top, there's a 'File' menu. Below it, a 'Slot:' dropdown is set to 'Bartlett.Outflow' and a date selector is set to 'Sep 9, 2024'. The main area is titled 'Assignments' and contains a table with the following data:

	Value	Flags	Priority	Rule	Set
1	66.3 cfs	R	6	 Pass Muddy Outflow for Diversers	 Basin Operations Rules
2	301.6 cfs	R	5	 Bartlett Supplement Diversers	 Basin Operations Rules
3	502.0 cfs	R	3	 IC Delivery	 Basin Operations Rules

A 'Close' button is located at the bottom right of the window.

RPL Improvements

- Values set by initialization rules with the Z flag now report which initialization rule

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- RPL sets loaded and saved in the model by default
- Improved tracking of unsaved changes
 - * in title bar
 - More informative messages about unsaved changes in specific sets on exit

