

Examples from Truckee RiverWare model for potential uses of compressed viewing of slots utility

1) Single Series slot with high redundancy (no NaNs)

Example Slot: FaradData.FRTolerance

Explanation: This slot is used to specify the tolerance in the flow at the Farad Gage that is identified as meeting the Floriston Rate. For most days it is set to 20cfs but user/operator needs ability to relax the tolerance on a daily basis if conditions warrant. There aren't very many exceptions to the standard 20cfs; maybe only a handful per year and usually for only a day or two at a time.

2) Single Series Slot with mostly NaN

Example Slot: Tahoe Data.UserInputRelease

Explanation: This slot is used to specify an override release from Tahoe. The model will assign a release according logic specified in the ruleset. However, there are occasions when a different release needs to be set by the user for any of a wide-variety of reasons. The release-setting logic in the ruleset looks for a value in this slot, if there isn't one (NaN) then it proceeds with the logic, if there is a value, it sets the release to this value. This slot has mostly NaN's except when the operator has reason to override the standard release.

3) Multiple Series Slots all inter-related (Ag-series candidate?)

a. **Example A:** Reservoir Priority Tables

Example Slot: FRSourcePriorityTables:Prosser

Explanation: This example is a periodic slot, but as we discussed, we see it better as 3 (in this case) series slots, one for each account. These 3 slots function as a unit describing in which order water will be charged to accounts on Prosser for meeting the FR demand. All of the "Priority Tables" objects in that region of the model are examples like this. The priority order will change only a couple times per year and in many cases will not change at all. So it would be nice to just see the timesteps where there was a priority change between 2 or more of the accounts. There would never be any NaN's in any of these slots.

b. **Example B:** Donner Release Controls

Example Slots: All on DonnerData.BocaFR_X_TMWA, DirectDemandtcidPOSW, DirectDemandtmwaPOSW, TMWAPortion, DrawdownOutflow. SCT including all of these slots is attached to email and is probably the most useful way to visualize what is happening

Explanation: These slots collectively control how the water is released from Donner Lake primarily during drawdown season. Two parties co-own the water in this lake and so the proportions of the release belonging to each party need to be defined as well as whether or not the water can go toward meeting the Floriston Rate or not. The SCT is helpful because all 5 slots can be viewed on a common time scale, but there is substantial redundancy that would be nice to be able to remove.

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