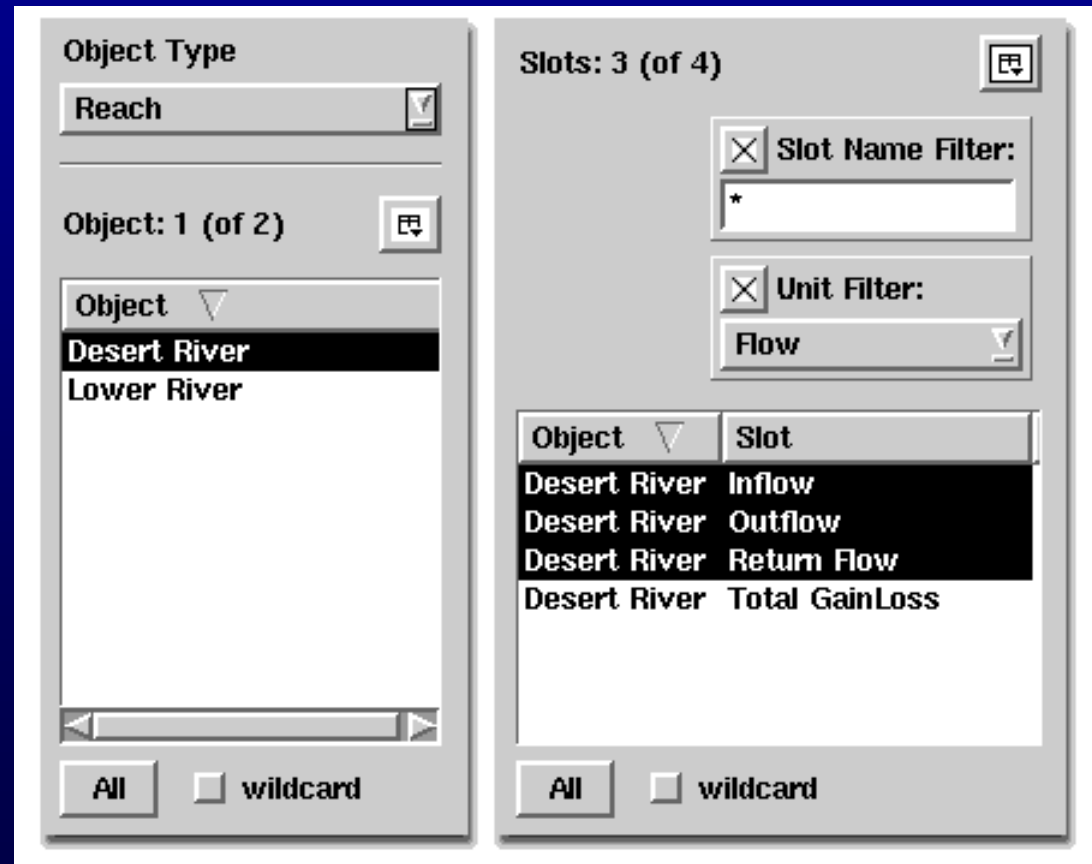


Qt-based Selector

RiverWare GUI Galaxy-to-Qt Migration

Phil Weinstein

New selector mockup
detail showing new
filtering, sorting, and
“wildcarding” controls



Qt-based Selector, p. 2

Replacement of Galaxy-implemented selector dialog boxes with a Qt-implementation.

- Major step in migration to the Qt GUI Toolkit.
- Uniform selection user interface for SubBasins, Simulation Objects, Slots, Accounts, Supplies, Exchanges and Paybacks.
- Uniform programming interface for selection of those objects which is better suited for use by other Qt dialog boxes.

Qt-based Selector, p. 3

User Interface and Internal Enhancements

- Better user interface for selections within large models, e.g. user controlled filtering and sorting.
- Standard internal representations of a “selection”.
- GUI support for selection expressions evaluated at a later time, e.g. *“All Energy Unit Slots on existing Power Reservoirs”*

Qt-based Selector, p. 4

The image displays a Qt-based Selector interface with three main panels:

- Object Types: 3 (of 12)**: A list of object types including AggDiversionSite, DataObject, DiversionObject, GroundWaterStorage, Reach, Reservoir, PowerReservoir (with sub-items LevelPowerReservoir, PumpedStorage, SlopedPowerReservoir), StorageReservoir, and WaterUser.
- Object: 2 (of 4)**: An "Object Name Filter" field containing an asterisk (*). Below it is a table with columns "Obj Type" and "Object":

Obj Type	Object
LevelPo...	Big Canyon Reservoir
Reach	Desert River
Reach	Lower River
Storage...	Mountain Storage
- Slots: 6 (of 28)**: A "Slot Name Filter" field containing an asterisk (*). A "Unit Filter" dropdown is set to "Flow". Below is a list of slots:

Object	Slot
Big Canyon Reservoir	Canal Flow
Big Canyon Reservoir	Diversion
Big Canyon Reservoir	Flow FROM Pumped S
Big Canyon Reservoir	Flow TO Pumped Stor
Big Canyon Reservoir	Hydrologic Inflow
Big Canyon Reservoir	Hydrologic Inflow Adju
Big Canyon Reservoir	Hydrologic Inflow Net
Big Canyon Reservoir	Inflow
Big Canyon Reservoir	Outflow
Big Canyon Reservoir	Release
Big Canyon Reservoir	Return Flow
Big Canyon Reservoir	Spill
Big Canyon Reservoir	Total Inflows
Big Canyon Reservoir	Unregulated Spill
Mountain Storage	Canal Flow
Mountain Storage	Diversion
Mountain Storage	Flow FROM Pumped S
Mountain Storage	Flow TO Pumped Stor

Each panel includes an "All" button and a "wildcard" checkbox.

Multiple Slot Selection Mockup Detail