



Cloud Computing

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Current Cloud Capabilities

You too can run RiverWare in the cloud!

- Standard node-locked license
- RiverWare and RiverSMART
- Distributed MRM – use all processors on a cloud-based virtual machine
- Amazon EC2 – 36 processors

Test Cases

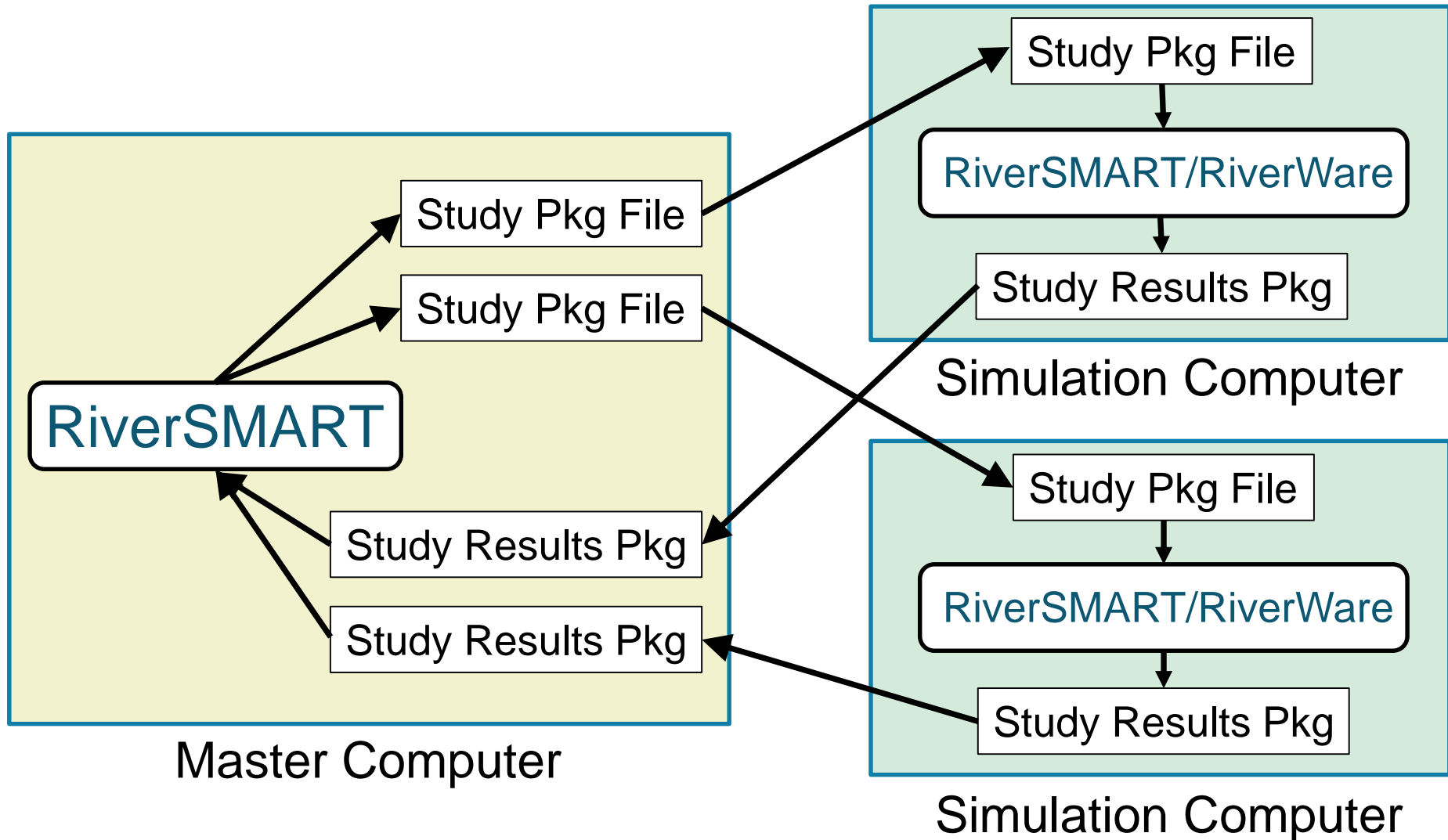
- CRSS RiverSMART Study
 - 214 traces
 - Amazon EC2 – 36 processors
 - 25 minutes (1 hr 15 min on desktop)
- Borg-RW MOEA
 - Tens of thousands of simulations
 - 3 EC2 VMs with 36 processors

Future Enhancements

RiverSMART Distributed Scenarios – utilize multiple computers/VMs

- “Master” RiverSMART divides scenarios into “groups”
- Distribute study package files
- RiverSMART simulates on each computer (distributed MRM)
- “Master” RiverSMART combines results packages into single study directory

RiverSMART Distributed Scenarios



Not limited to the cloud!