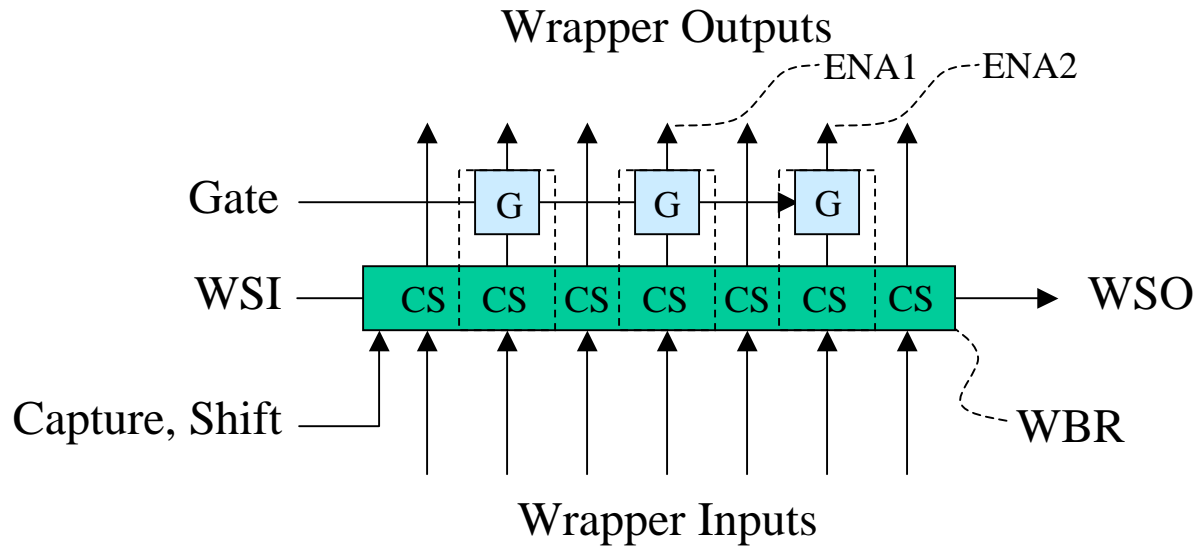
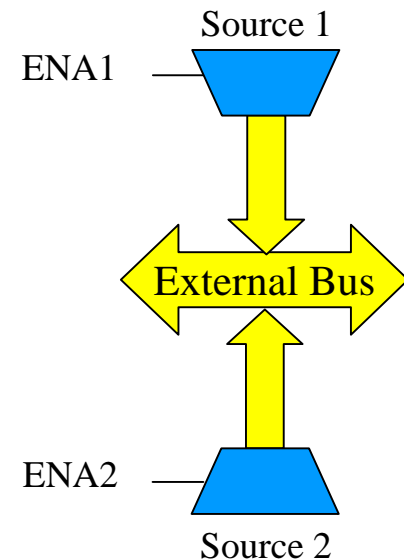


Proposal For
A WExtest Instruction PnP Protocol

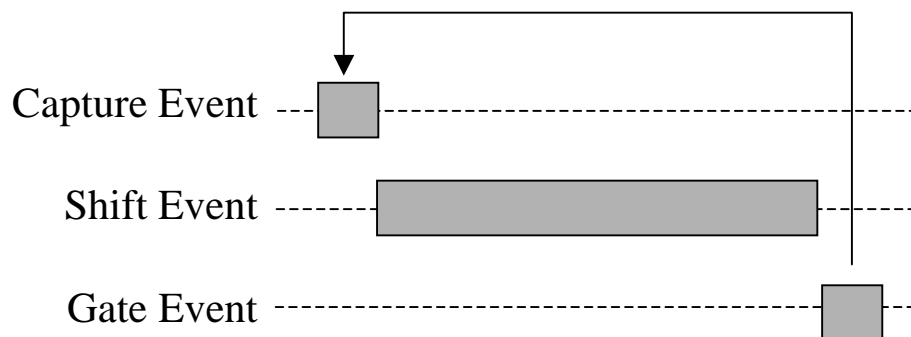
WExtest Instruction PnP Protocol Using Gating



Typical External Bussing



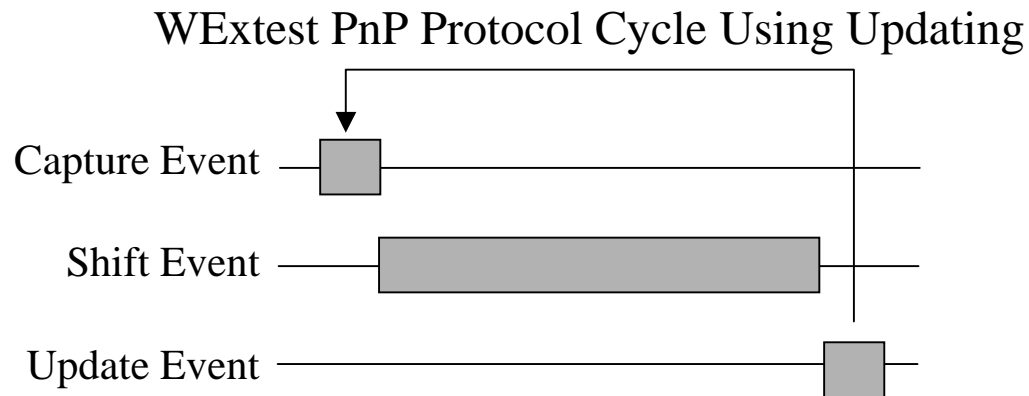
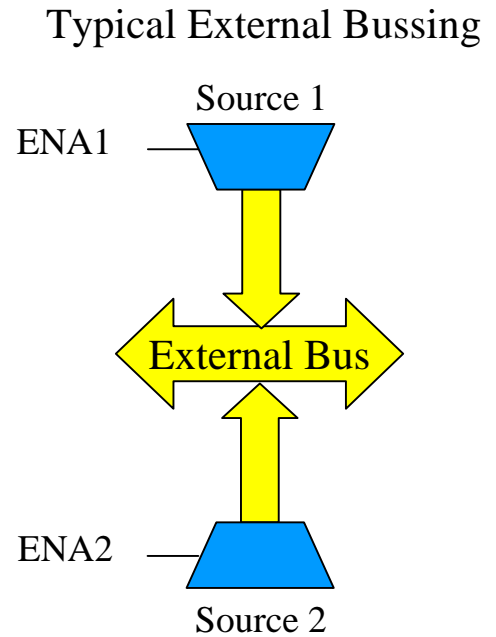
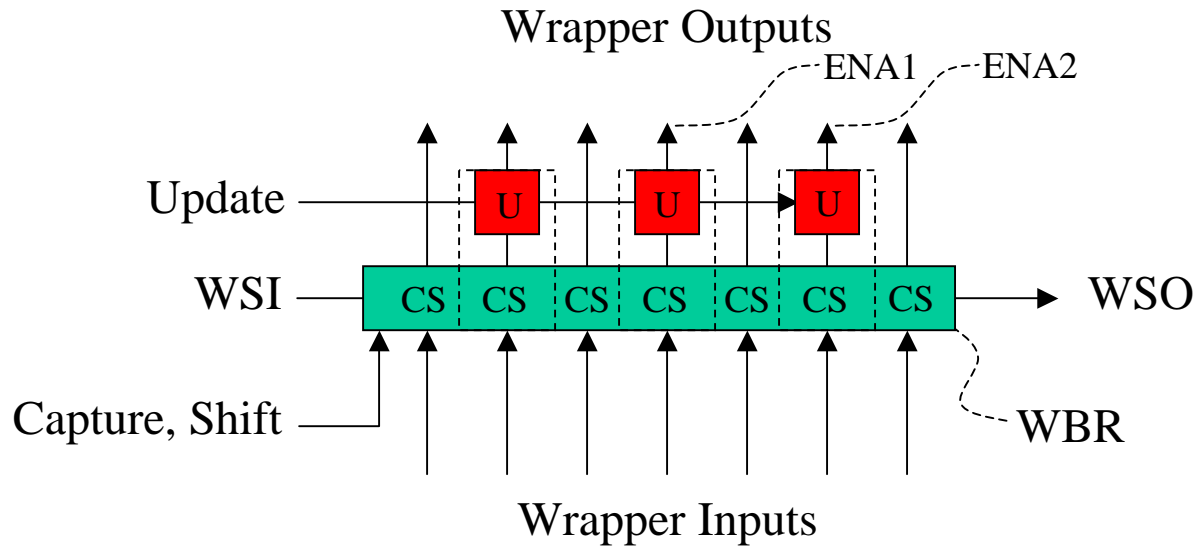
WExtest PnP Protocol Cycle Using Gating



Safe operation of Source 1 & 2 outputs require Gating control of ENA 1 & 2. This requires a protocol that provides a time slot (event) for Gating.

Note: Gating is used to mean the passing or blocking of wrapper output signals.

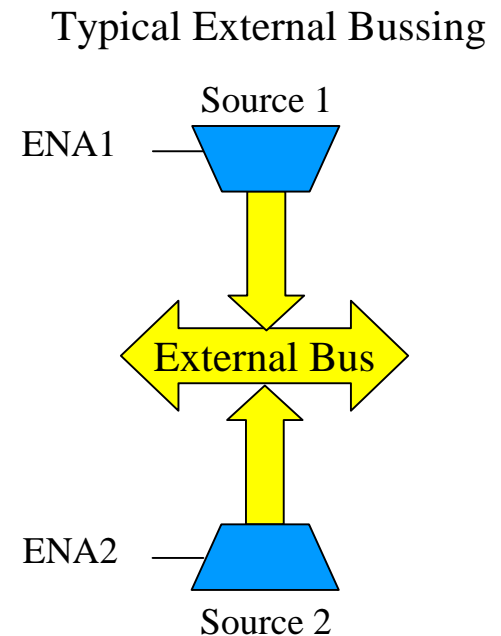
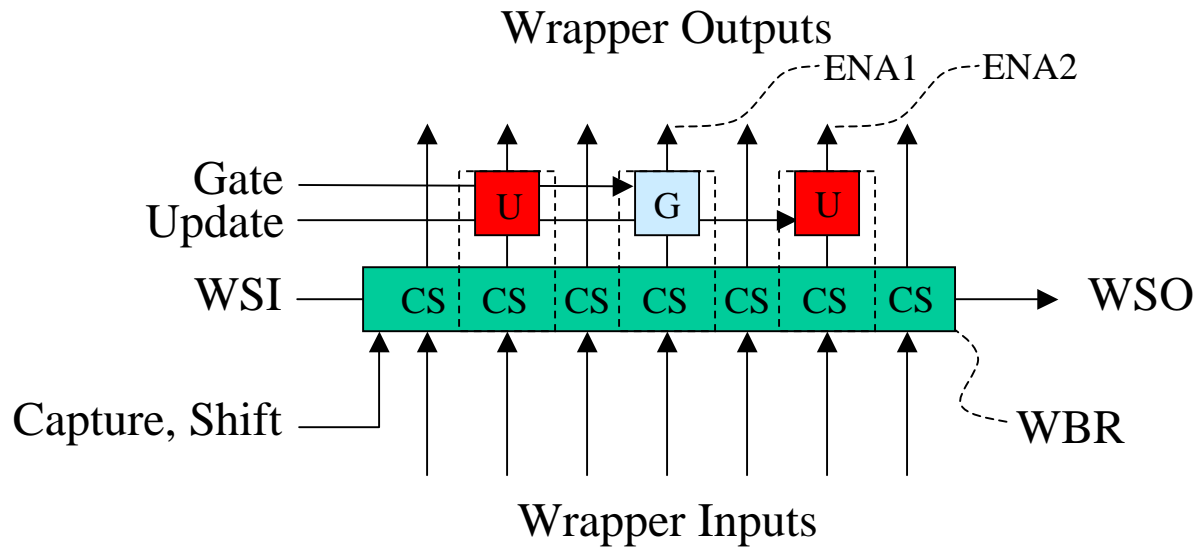
WExtest Instruction PnP Protocol using Updating



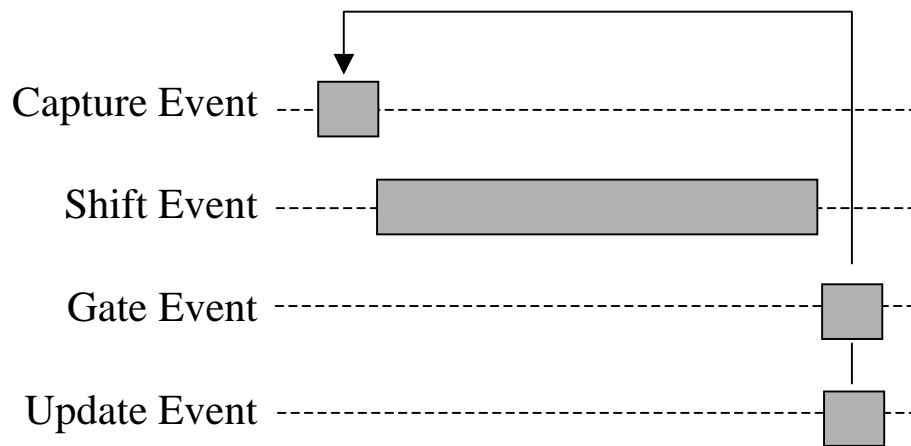
Safe operation of Source 1 & 2 outputs require Updating control of ENA 1 & 2. This requires a protocol that provides a time slot (event) for Updating

Note: Updating is used to mean the storing of wrapper output signals in an update memory.

WExtest Instruction PnP Protocol using Gating & Updating



WExtest PnP Protocol Cycle Using Gating & Updating



Safe operation of Source 1 & 2 outputs require Updating & Gating control of ENA 1 & 2. This requires a protocol that provides a time slot (event) for Gating & Updating

Motions for WExtest Instruction PnP Protocol

Motion 1

When WExtest is the current instruction, a protocol shall be followed to standardize the operation of wrappers. This protocol shall consist of a sequence of: (1) a capture event, (2) a shift event, and (3) an update or gate event.

Motion 2

The timing of the WExtest protocol events shall not overlap to insure standardized timing of test data to and from circuits external of wrappers.

Motion 3

The timing of WExtest update and gate events from the same or different wrapper shall occur such that the test data output in response to either the update or gate event occurs within the same event time frame.