



One ALM contains two programmable registers. Each register has data, clock, clock enable, synchronous and asynchronous clear, and synchronous load and clear inputs. Global signals, general-purpose I/O pins, or any internal logic can drive the register's clock and clear-control signals. Either general-purpose I/O pins or internal logic can drive the clock enable. For combinational functions, the register is bypassed and the output of the LUT drives directly to the outputs of an ALM.

Each ALM has two sets of outputs that drive the local, row, and column routing resources. The LUT, adder, or register outputs can drive these output drivers (refer to Figure 2–6). For each set of output drivers, two ALM outputs can drive column, row, or direct-link routing connections. One of these ALM outputs can also drive local interconnect resources. This allows the LUT or adder to drive one output while the register drives another output.