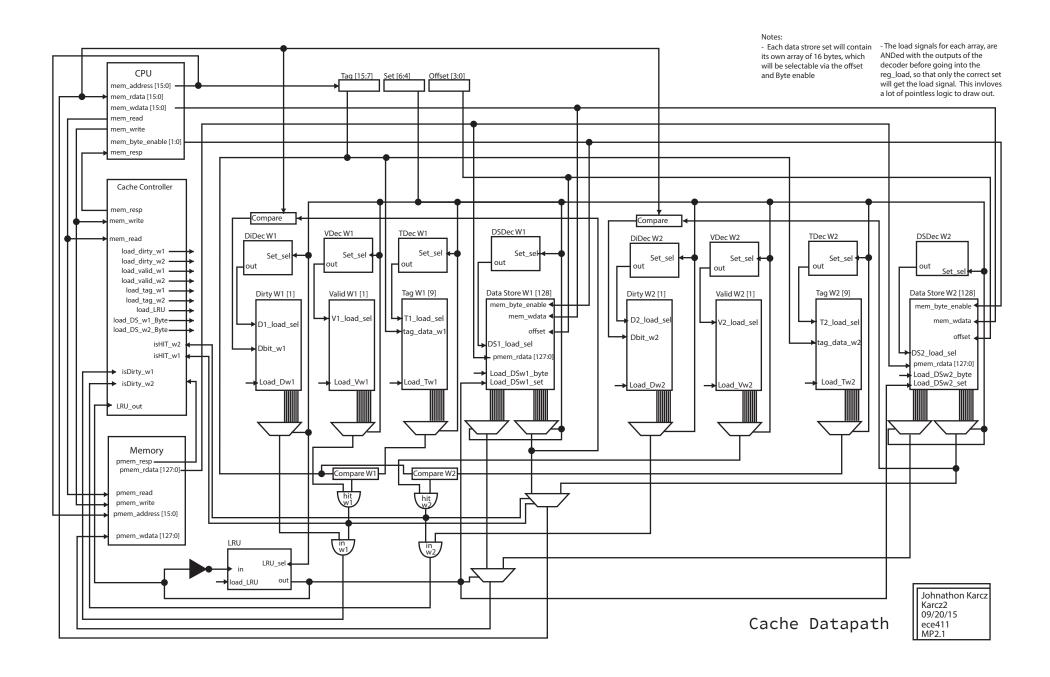
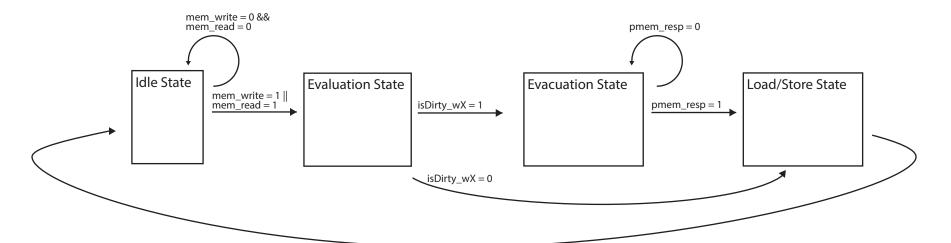
Johnathon Karcz NetID: karcz2 ECE411 MP2.1 09/22/2015





Idle State: sits spinning setting all load signals to zero until there is a read or write signal from the CPU. Evaluation State:
Determines the next state
based on set register
values and inputs from the
CPU, like whether it is
read/write, and the values
from the address parsing.
IE: TAG/SET/OFFSET

Mainly, determines if an evacuation is needed or not.

Evacuation State:

If there is a miss, when loading and the valid+dirty bits are High (for LRU way), then we need to evacuate before loading data in from mem.

If there is a miss, when storing and the valid+dirty bits are High (for LRU way), then we need to evacuate before loading data in from mem.

Load/Store:

Execute load and store operations directly with the cache data stores. No memory access in this state.

In the case of a store, we set the values in the data store and set the dirty bit to high. The next time we need to replace, we will need to evacuate (write back)

Cache Control

Johnathon Karcz Karcz2 09/20/15 ece411 MP2.1