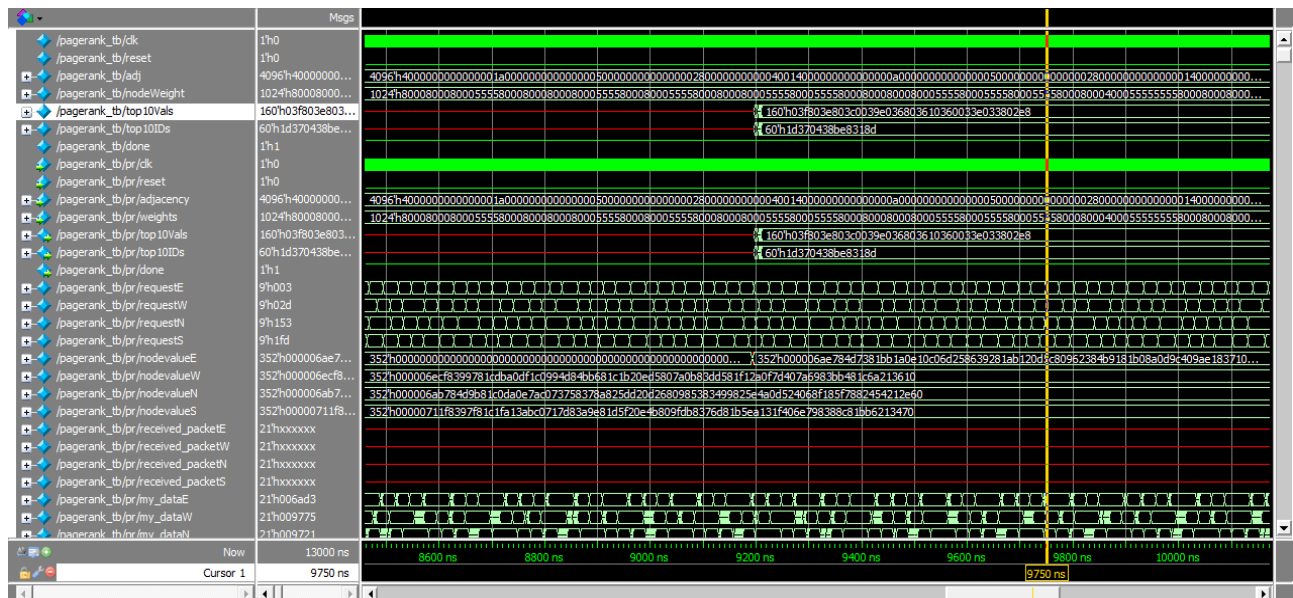


Output Waveform



Top10Vals: MSB has the highest score and LSB has the lowest scored website. (Each score 16Bit wide)

Top10Ids: MSB points to the ID of the website with highest score and LSB to lowest. (6 bit wide)

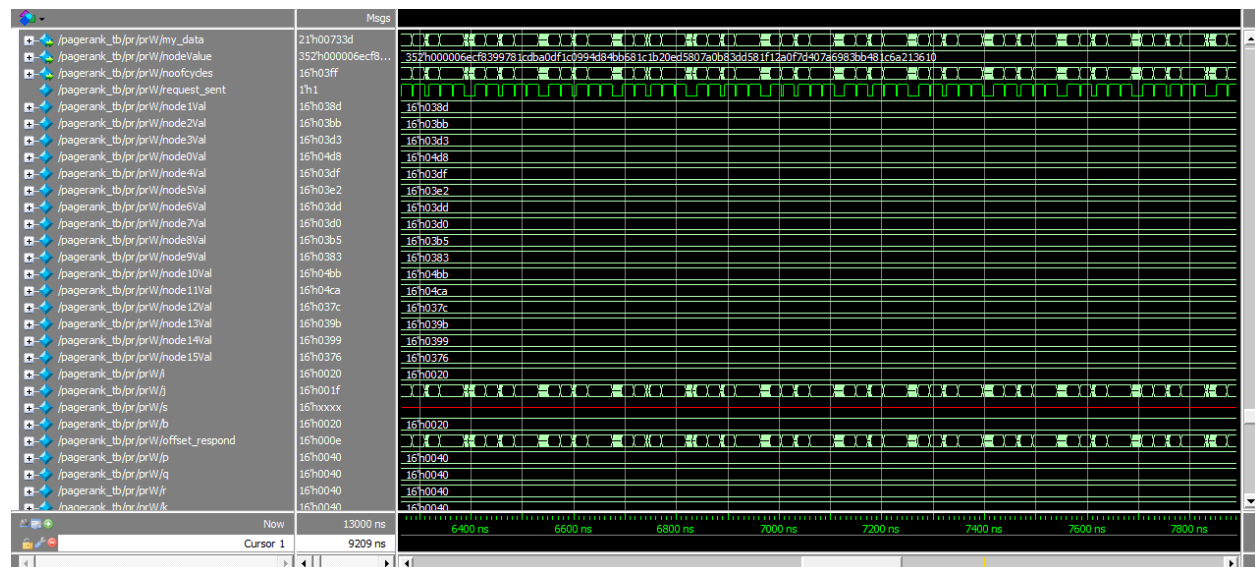
Done signal is not working. It goes high all the time.

Our output is coming after 13µs.

We used the same test bench given by the professor. Since we used the same test bench, we followed the usual steps to simulate the code. We have only removed the reg in the declaration part of the output.

One other way to check our output is, we have displayed all the **individual node values** in the pagerank program. This part of the code is already present, which was used for debugging previously. You can see below all the node value screen shots.

page Rank prE (page rank EAST has websites from 0 to15)



Wireshark packet capture showing a sequence of messages between a pagerank task and various nodes. The packet list on the left shows messages from 'pagerank_tb' to 'pr/prW/a', 'temp', 'prN/dk', 'N/eset', 'N/adjacency', 'N/weights', 'N/received_packet', 'N/request', 'N/hwy_data', 'N/nodeValue', 'N/hood/cfides', 'N/request_sent', and 'N/node1Val' through 'N/node15Val'. The packet details pane shows the 'Msgs' field. The packet bytes pane shows the raw data, with a yellow vertical line indicating the current packet (9209). The packet list pane shows the packet number (9209) and the packet size (13000 ns).

The image displays a Wireshark packet capture of a sequence of 'pr/prS' messages. The left pane shows the packet list with details for each message. The middle pane shows the raw packet bytes in hexadecimal. The bottom pane shows the packet timeline with time markers in nanoseconds (ns).

Packet List:

- 4096h40000000...: /pagerank_lb/pr/prS/adjacency
- 1024h80008000...: /pagerank_lb/pr/prS/weights
- 21h000000...: /pagerank_lb/pr/prS/request
- 9h019...: /pagerank_lb/pr/prS/lmy_data
- 21h00711f...: /pagerank_lb/pr/prS/lmy_value
- 352h00000711f8...: /pagerank_lb/pr/prS/lmy_inofkeys
- 1h0...: /pagerank_lb/pr/prS/request_sent
- 16h0376...: /pagerank_lb/pr/prS/inode1val
- 16h0388...: /pagerank_lb/pr/prS/inode2val
- 16h0373...: /pagerank_lb/pr/prS/inode3val
- 16h04d1...: /pagerank_lb/pr/prS/inode0val
- 16h04c7...: /pagerank_lb/pr/prS/inode4val
- 16h036b...: /pagerank_lb/pr/prS/inode5val
- 16h0376...: /pagerank_lb/pr/prS/inode6val
- 16h04fe...: /pagerank_lb/pr/prS/inode7val
- 16h0392...: /pagerank_lb/pr/prS/inode8val
- 16h03ab...: /pagerank_lb/pr/prS/inode9val
- 16h03a9...: /pagerank_lb/pr/prS/inode10val
- 16h038b...: /pagerank_lb/pr/prS/inode11val
- 16h04ea...: /pagerank_lb/pr/prS/inode12val
- 16h0383...: /pagerank_lb/pr/prS/inode13val
- 16h0397...: /pagerank_lb/pr/prS/inode14val
- 16h0388...: /pagerank_lb/pr/prS/inode15val
- 16h0040...: /pagerank_lb/pr/prS/i
- 16h0030...: /pagerank_lb/pr/prS/j
- 16h0000...: /pagerank_lb/pr/prS/s
- 16h0040...: /pagerank_lb/pr/prS/b
- 16h000f...: /pagerank_th/pr/prS/lmy_inofkeys_respond

Timeline:

- 8600 ns
- 8800 ns
- 9000 ns
- 9200 ns
- 9400 ns
- 9600 ns
- 9800 ns
- 10000 ns