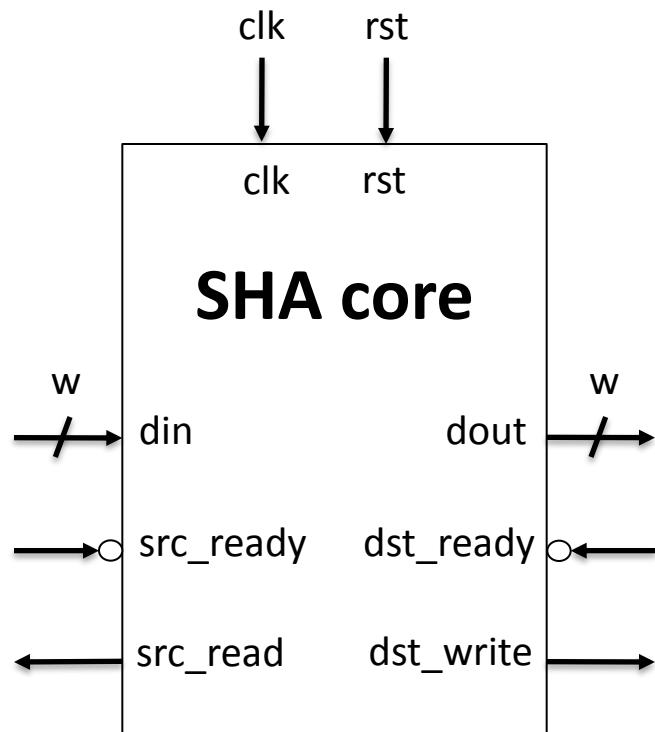
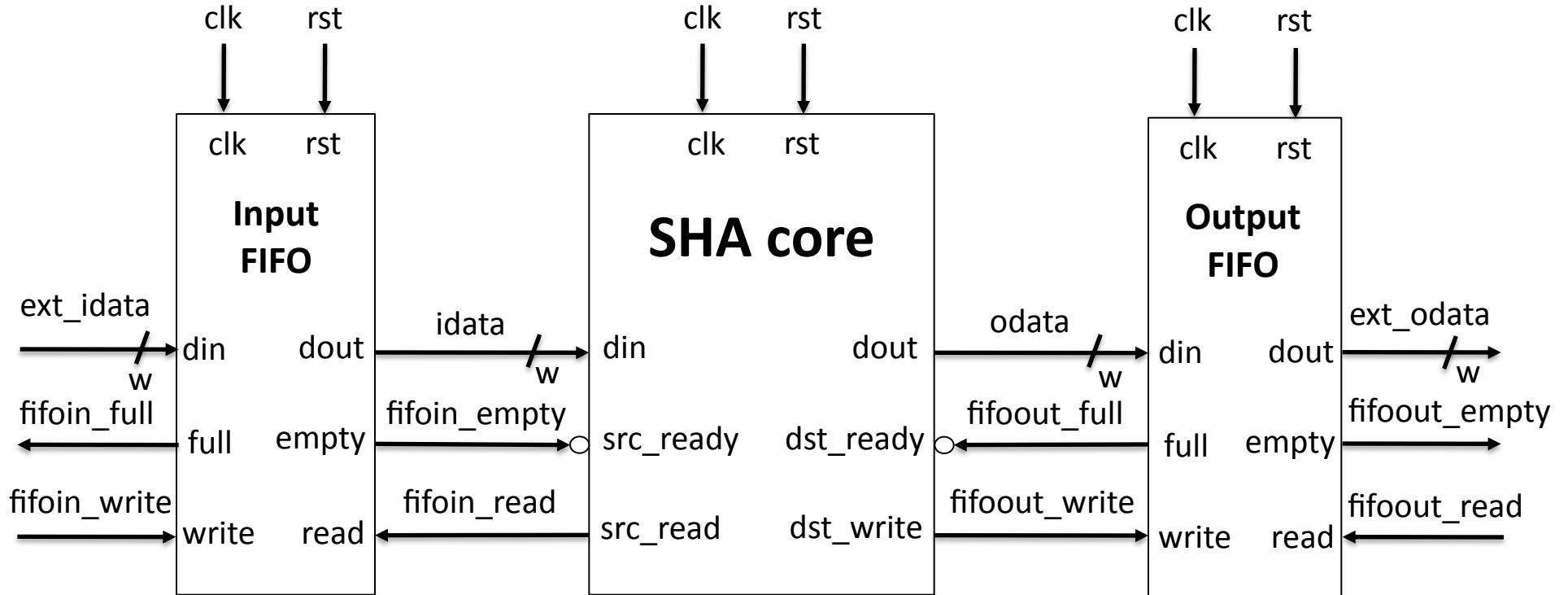


The GMU Interface & Communication Protocol Used in the Implementations of the SHA-3 Round 2 Candidates

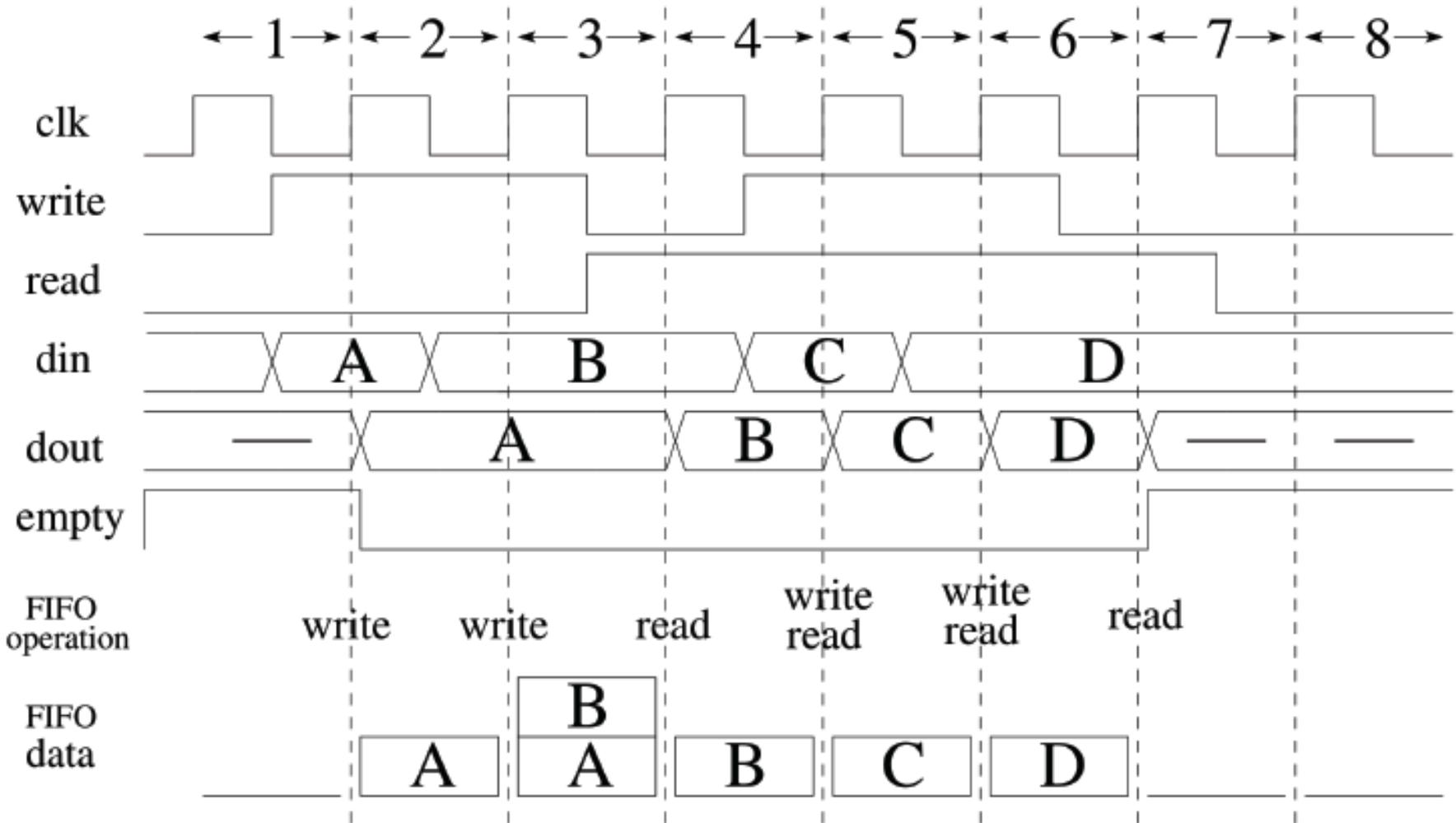
SHA Core Interface



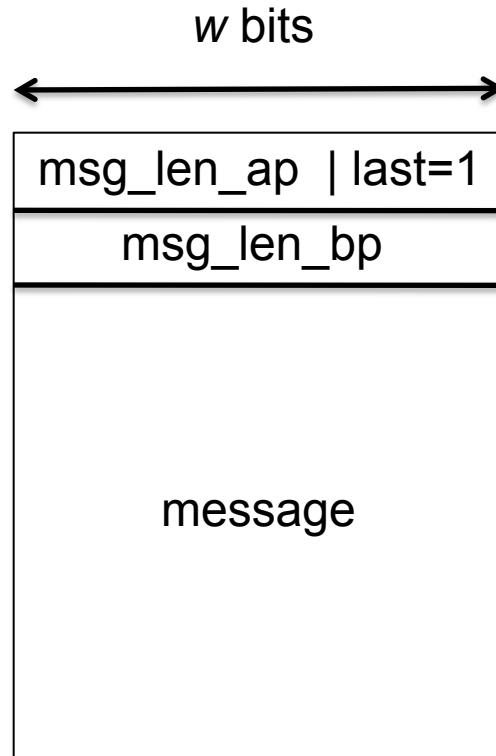
SHA Core Interface + Surrounding FIFOs



Operation of FIFO



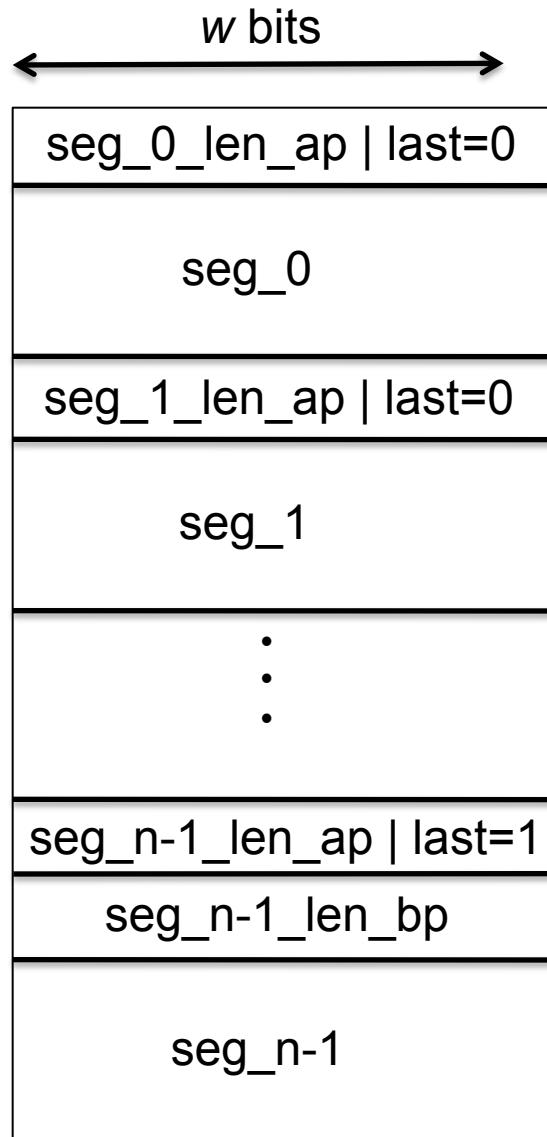
Communication Protocol for Padded Messages Without Message Splitting



msg_len_ap – message length after padding [bits]

msg_len_bp – message length before padding [bits]

Communication Protocol for Padded Messages With Message Splitting



`segi_len_ap` – segment i length after padding*
[bits]

`segi_len_bp` – segment i length before padding
[bits]

* For all $i < n-1$ segment i length after padding is assumed to be a multiple of the message block size, b [characteristic to each function], and thus also the word size, w . The last segment cannot consist of only padding bits. It must include at least one message bit.