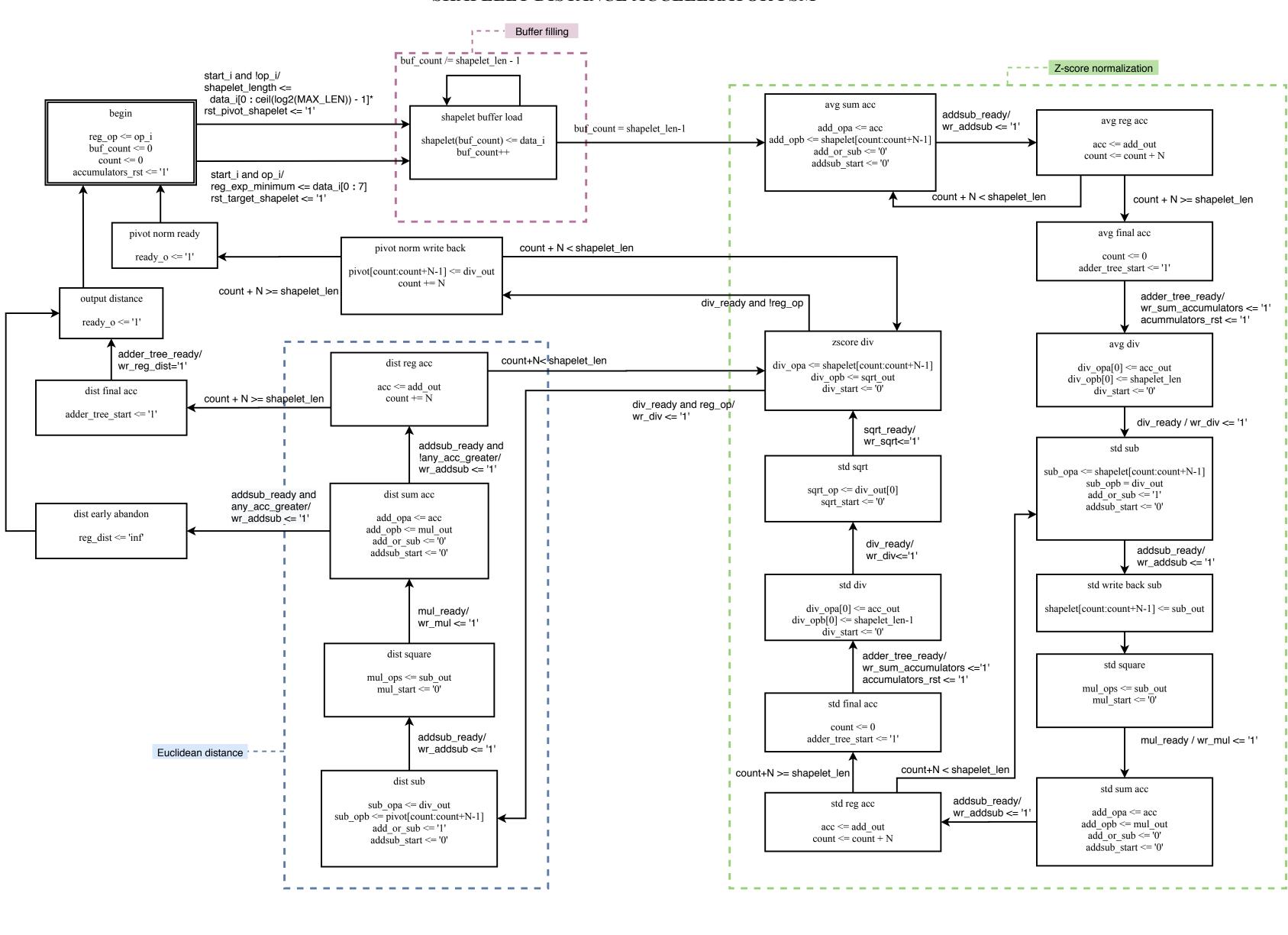
SHAPELET DISTANCE ACCELERATOR FSM



^{*} Since MAX_LEN is a generic, ceil(log2(MAX_LEN)) is only computed in pre-synthesis, generating no hardwre.

N is the number of processing units used (NUM_PU in the entity).

When not explicit, operands are assumed to have full length (e.g. add_opa add_opa[0:N-1]).

op_i indicates the operations performed by the accelerator:

- 0: Change length and normalize a new pivot shapelet
- 1: Calculate distance between normalized pivot shapelet and a new target shapelet

For operation 0, consider the signal shapelet in this FSM to mean pivot buffer and for operation 1, consider the signal shapelet in this FSM to mean target buffer