Cress b ol	Description
Symbol	
α	time decaying factor
θ	threshold for the hot key identification
c_k	counter of a key k
d_{min}	minimal number of workers for hot key
f_{top}	the highest frequency
f_k	frequency of a key k
k, v	key identifier
t_{pri}, t_{cur}	prior and current timestamp
w	worker identifier
A	set of candidate workers
C_w	unprocessed tuples for worker w
D	set of input stream data
K	set of top frequent keys
K_{max}	the maximum capacity of the set K
M	set of assignable workers for each key
N_{epoch}	the number of sequential tuples in an epoch
N_w	the number of assigned tuples to worker w
P_w	the processing capacity for worker w
T_w	the estimate waiting time for worker w
W_{num}	the number of workers