# PISketch: Finding Persistent and Infrequent Flows (Additional Report)

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## A Main Parameter Configurations

#### A.1 PISketch

**Memory Allocation:** 10% memory for Bloom filter (with 3 hash functions), and 90% memory for the Weight sketch.

Main Parameter Settings: (1) Defaults: L = 10, V = 1000,  $\mathcal{T} = 3000$ ; (2) The optimal parameters in Section V.C: p = 5,  $N_{Total} = 5e6$ .

#### A.2 Sol-1: On-Off + CM sketch

**Memory Allocation:** 10% memory for On-Off, and 90% memory for CM sketch. **Main Parameter Settings:** For On-Off, we set the number of arrays to 3 (d = 3), and the number of key-value pairs in a bucket to 8 (w = 8). For the CM sketch, we set the number of arrays to 3.

### A.3 Sol-2: PIE + CM sketch

**Memory Allocation:** 1% memory for CM sketch, and 99% memory for PIE.

Main Parameter Settings: Since PIE needs to maintain a Space-Time Bloom filter for every period, we use Q times the default memory for PIE, where Q denotes the number of periods. In all our experiments, we set Q = 1000. For the CM sketch, we set the number of arrays to 3. We first assign memory to PIE and then allocate the remaining memory to the CM sketch.