
- Parallel BVM-TCAM packet lookup process
- Exploiting temporal locality on SDN
- Dependent rule caching solution on soft processor
- Support of dynamic rule update in TCAM Cache
- Scalability with rule size and clock rate
- 200 MPPS Throughput, 25 ns average latency at 97% cache hit rate, 5.27 W power consumption
- Support of 512 15-tuple SDN Rules in BVM

FASST: FAst Scalable SDN Table

BVM: 2D-Pipeline Architecture
80 cycles lookup ($t_{slow}$)

TCAM: 3 cycles lookup ($t_{fast}$), 32 SDN Rules memory capacity