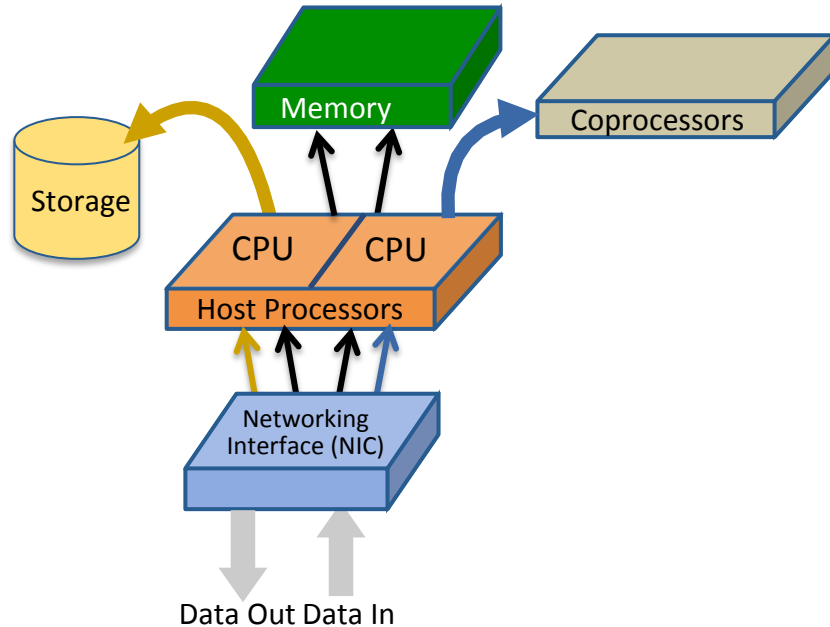


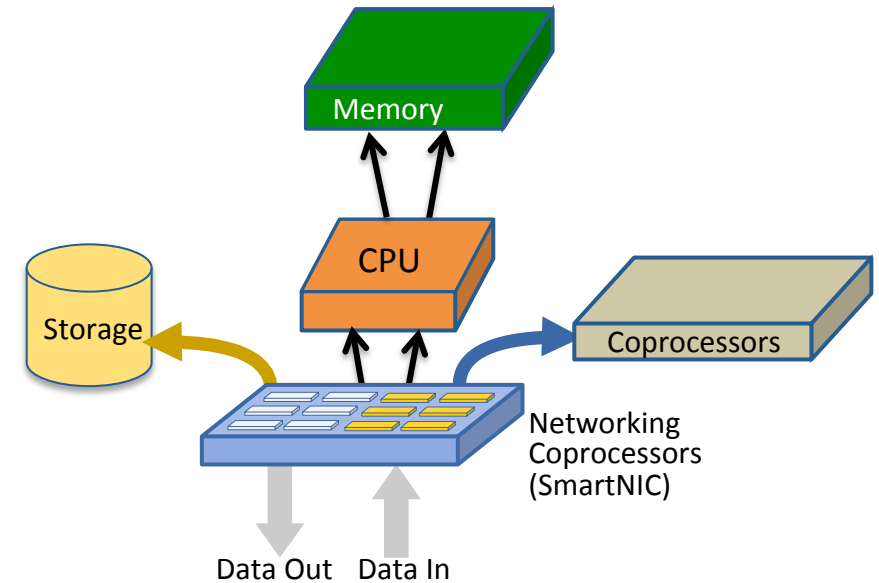
# A DISAGGREGATED ARCHITECTURE IS KEY TO UNLOCKING PERFORMANCE

## Homogenous Architecture - Historical



- Performance is throttled when CPU manages all traffic
- Death of Moore's Law means general purpose CPUs cannot keep up with demands of new workloads
- Scaling performance is breaking the cost/power budget
  - Bigger CPU = more Cost & Power
  - Edge Cloud space constraints limit server sprawl

## Disaggregated Architecture



- Specialized accelerators for Networking, AI and ML
- Enable servers to use more cost/power effective CPUs
- Provide lower latency to application and Edge devices
- Hyperscalers have been doing this for years because they have the resources to build their own

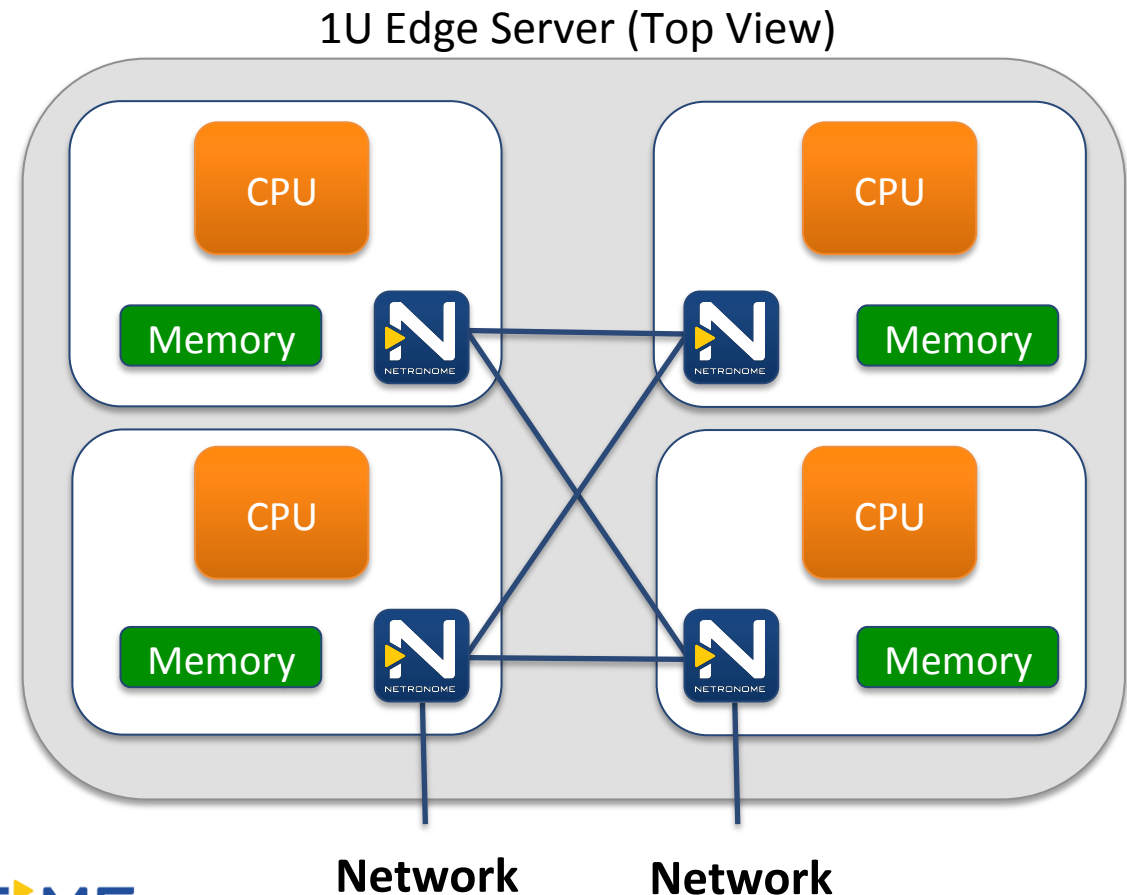
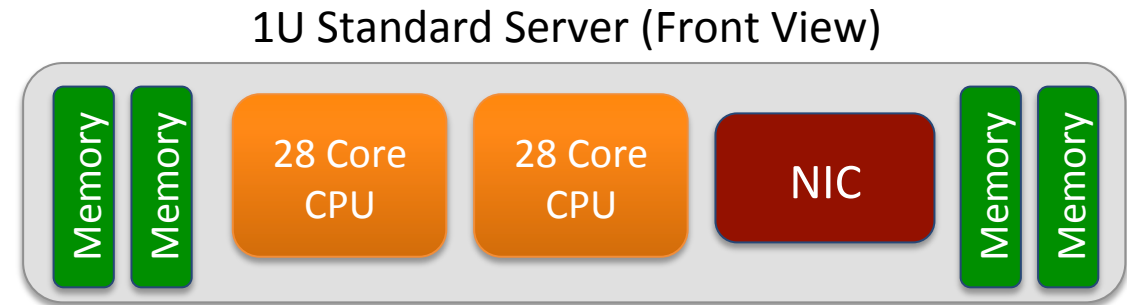
# THE ECONOMICS OF DISAGGREGATION

## Disaggregated, processing architecture enables scalability of 4 to 8 microservers per 1U

- Lower cost/wattage through the use of low core-count CPUs
- More Bare Metal users per 1U with direct access to kernel
- Achieves hyperscale efficiency on common rack and power infrastructure
- Enables Edge-friendly operating model that lowers the cost to deploy compute in non-data center locations

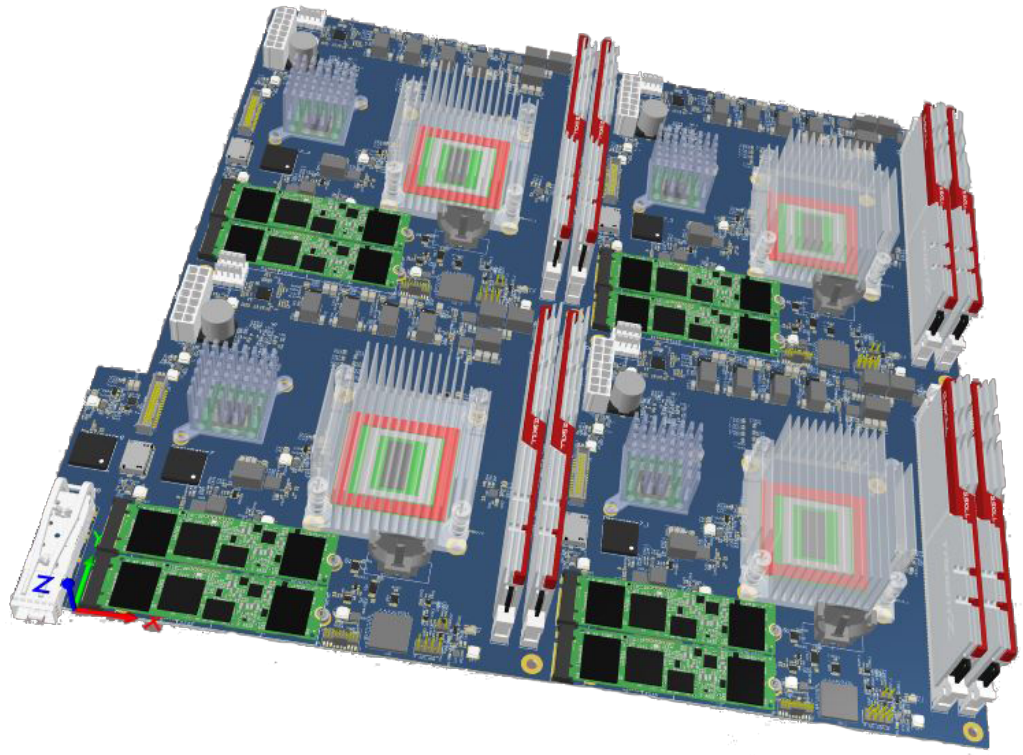
## Dedicated Netronome SmartNIC per microserver offloads all network processing from the CPU

- Optimizes data management and reduces overall platform latency
- Enables highly scalable security policies and control close to the cloud-native applications
- Developers gain access to all network acceleration capabilities through the use of eBPF offload

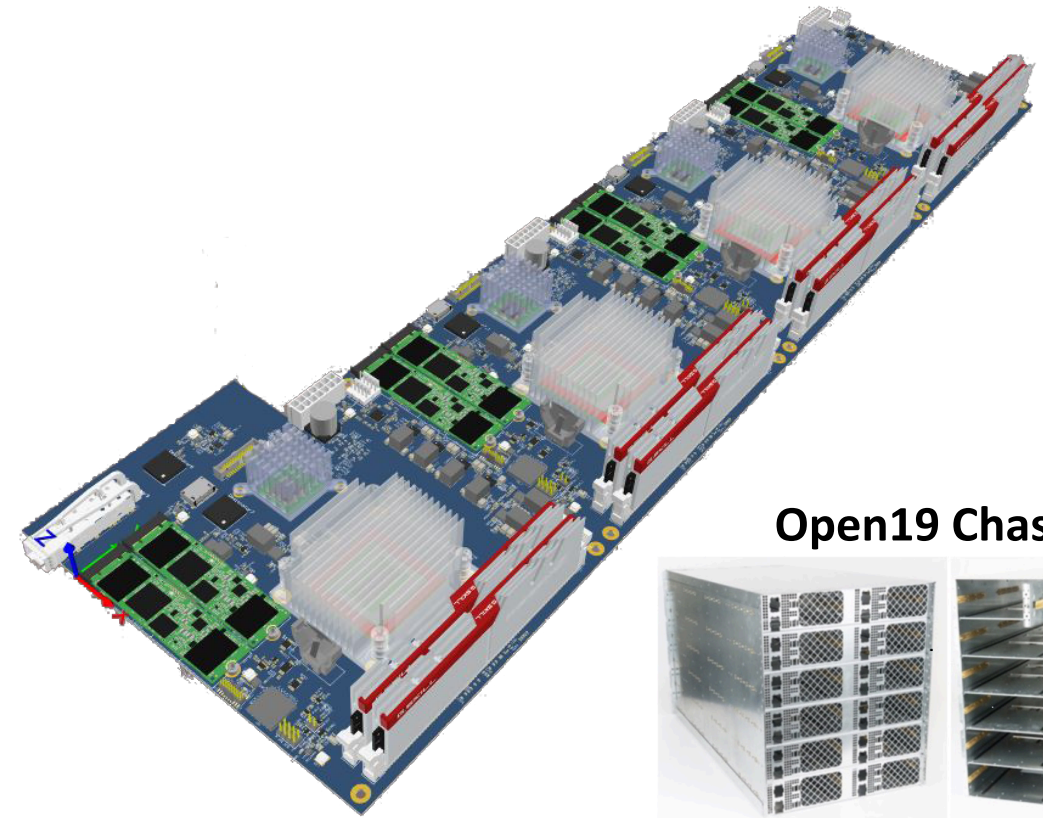


# INNOVATIVE EDGE CLOUD MICROSERVER FORM FACTORS

Standard 1U Form Factor Solution with 4 Microservers and Integrated Netronome SmartNIC



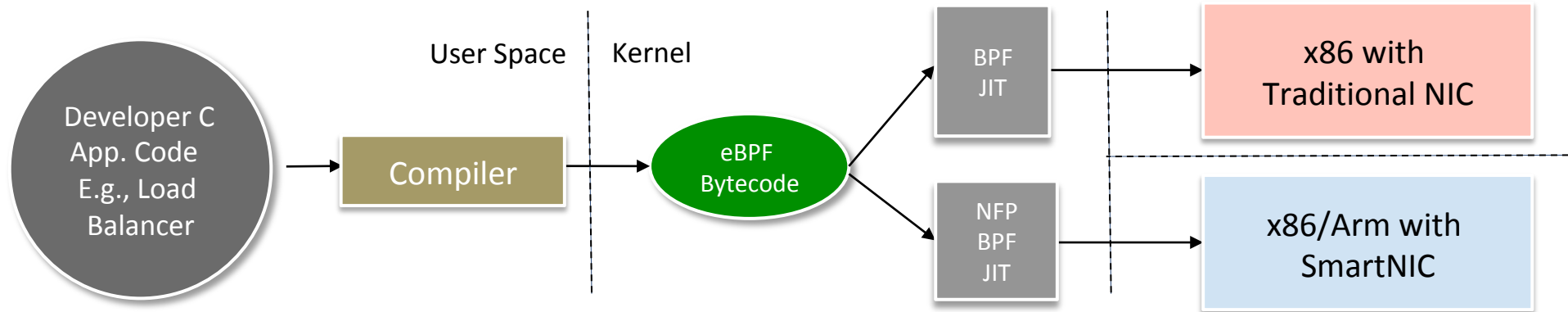
Open19-based Solution with 4 Microservers and Integrated Netronome SmartNIC



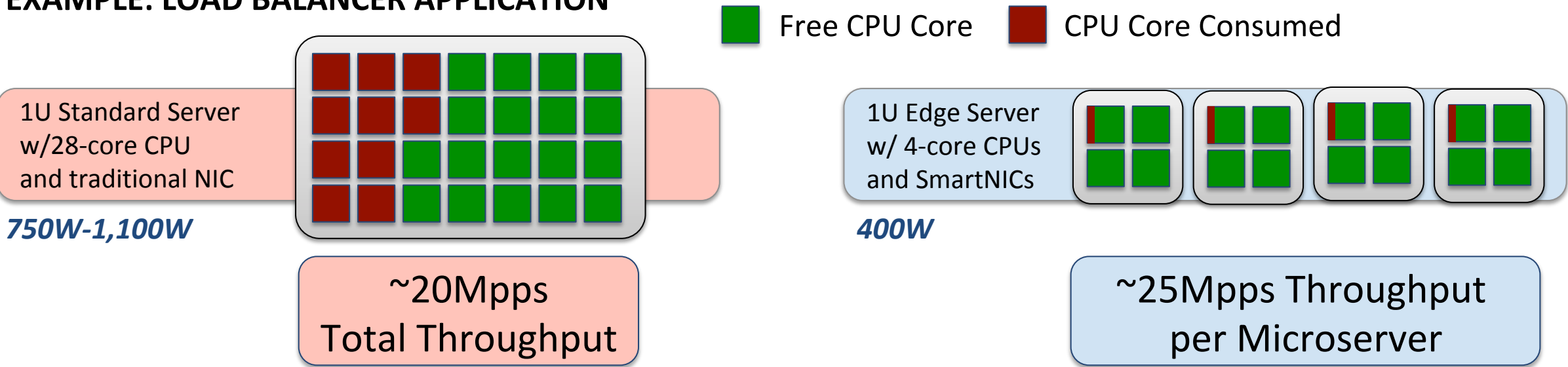
Open19 Chassis



# EASE OF PROGRAMMING WITH HIGH SERVER EFFICIENCY



## EXAMPLE: LOAD BALANCER APPLICATION



**22% increase in Load Balancer performance while saving 10 CPU cores via hardware offload**