

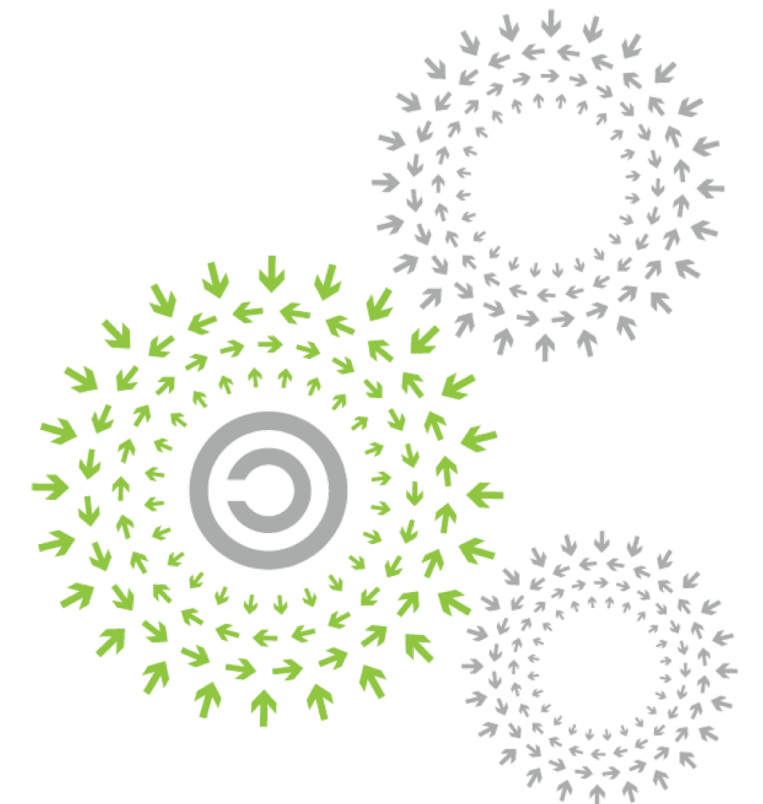
Open for All.



OCP
GLOBAL
SUMMIT

SONiC on Cisco 8000

Praveen Bhagwatula, Fellow, Cisco



OPEN
SILVER™

Cisco Silicon ONE



NETWORKING

- 10.8T device with 3 roles
- NPU for modular systems w/ Ethernet fabric (flexible network/fabric allocation)
- Fabric element
- System on Chip
- Large on-die SRAM forwarding resources
- TCAM
- SRAM
- On-package FIB & buffer expansion via HBM



Cisco 8000

Powered by Cisco Silicon ONE



NETWORKING



Cisco 8200



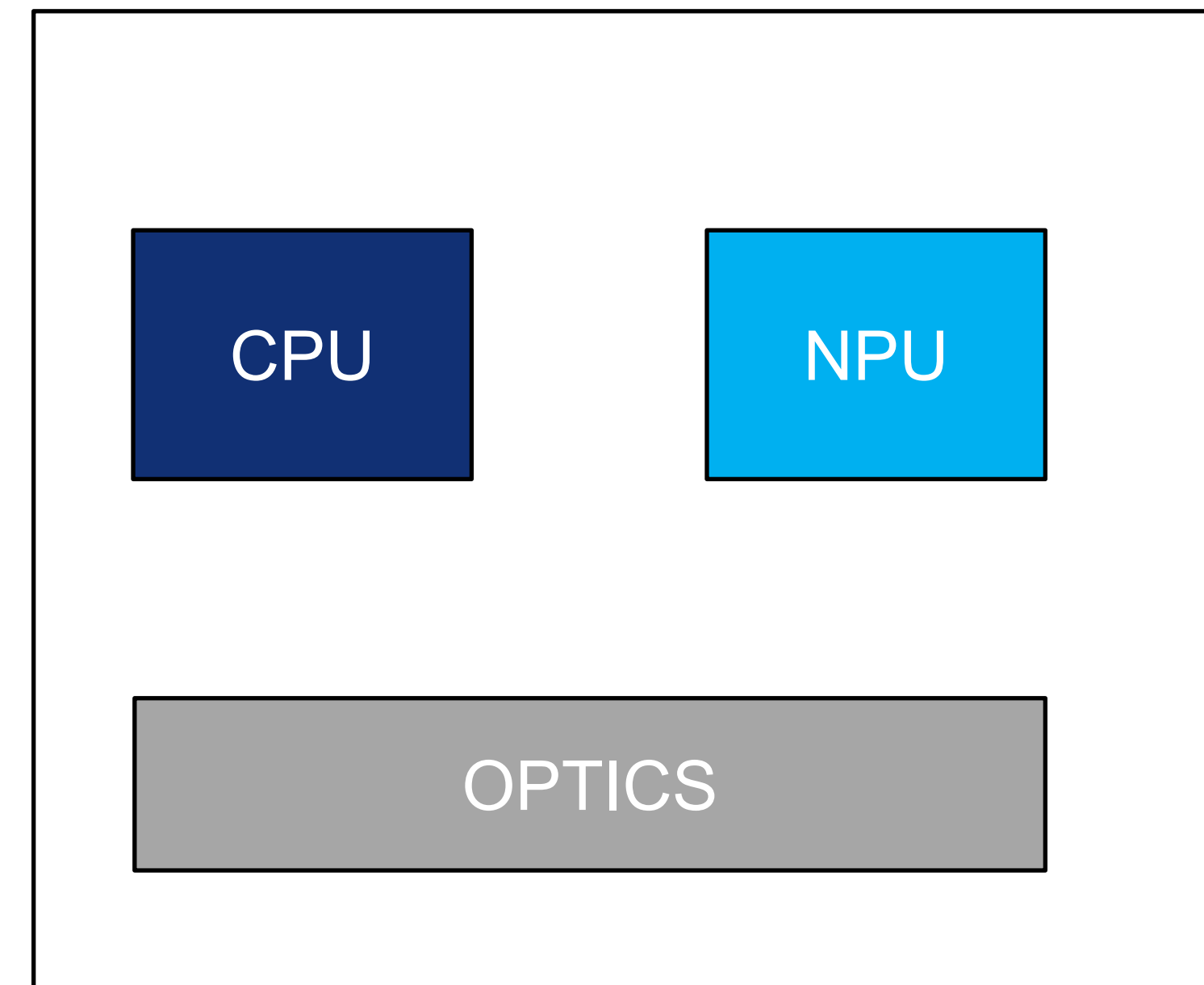
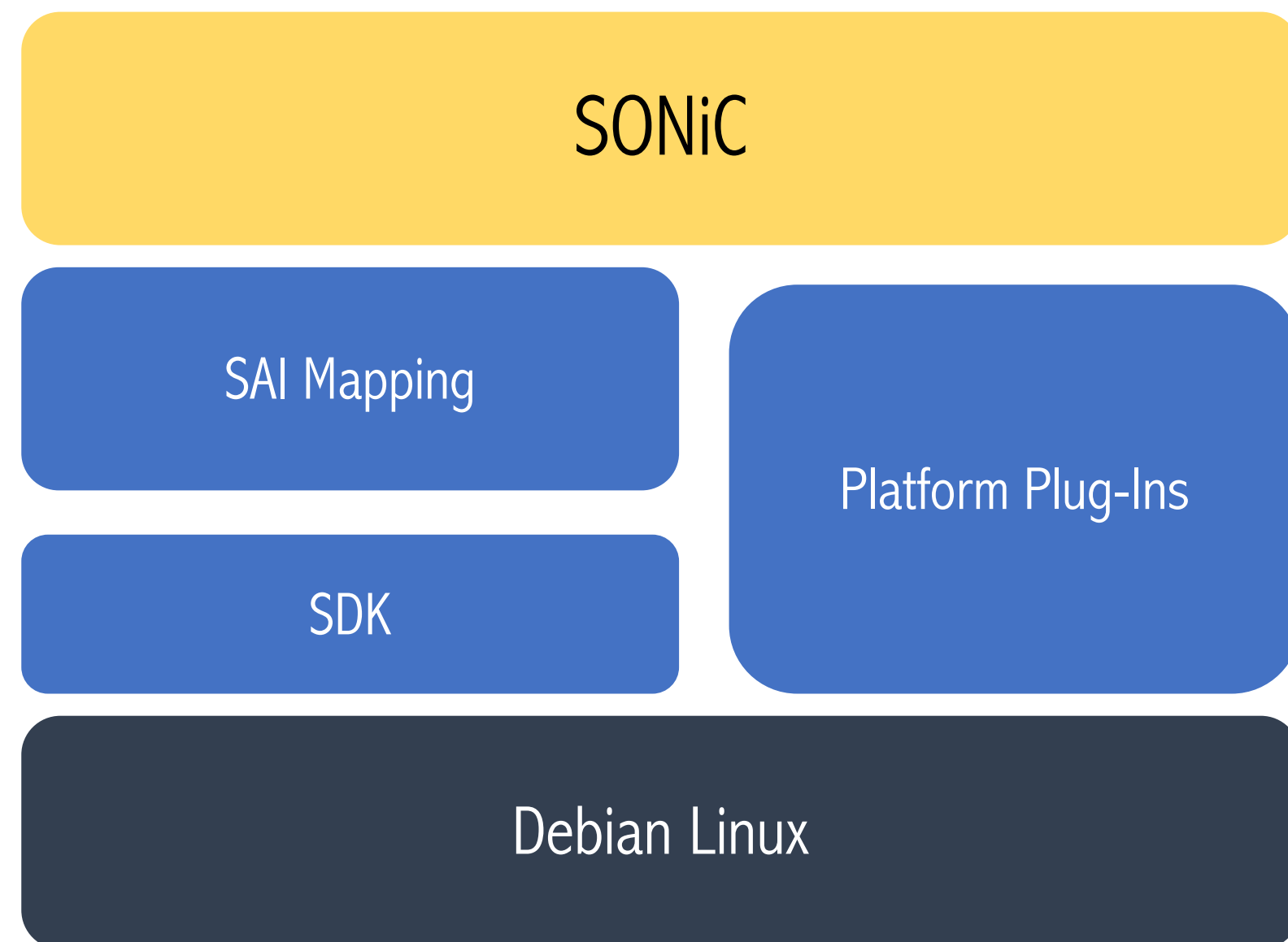
Cisco 8800



SONiC on Cisco 8200 Platforms



NETWORKING

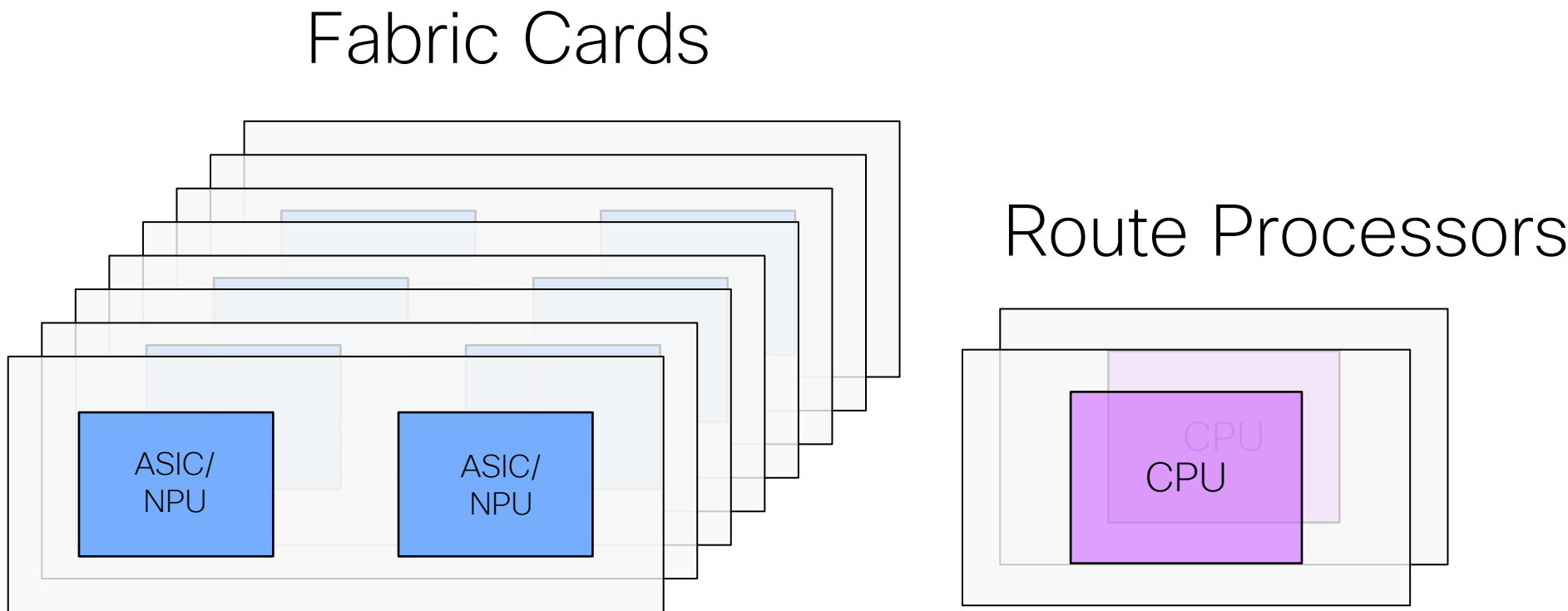
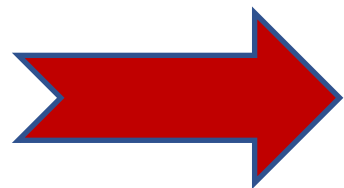


Decomposing Cisco 8000

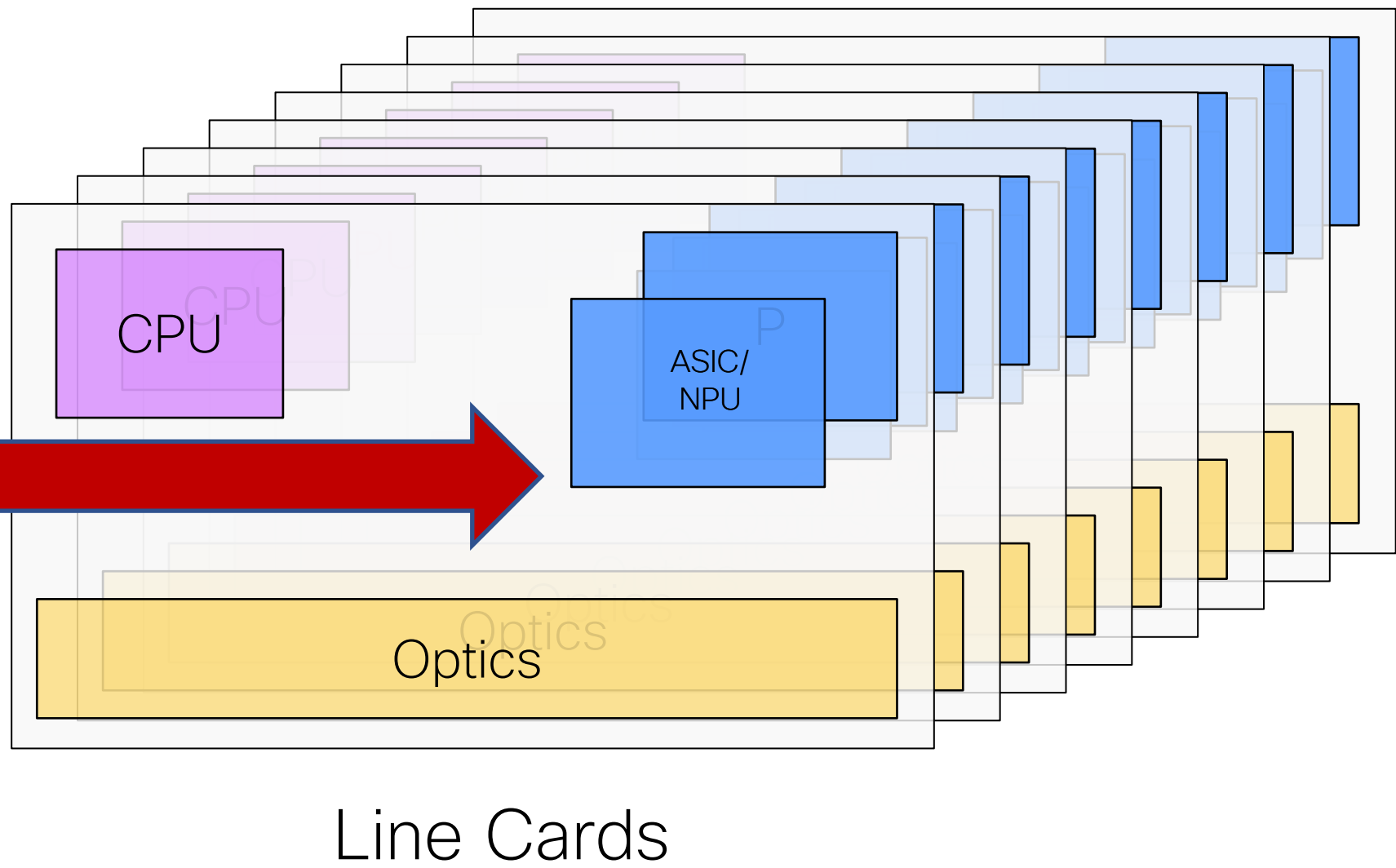
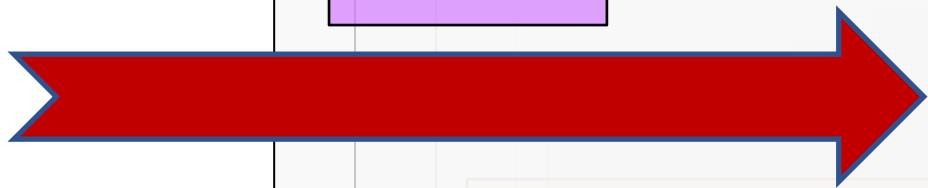


NETWORKING

Fabric NPU



Line Card NPU

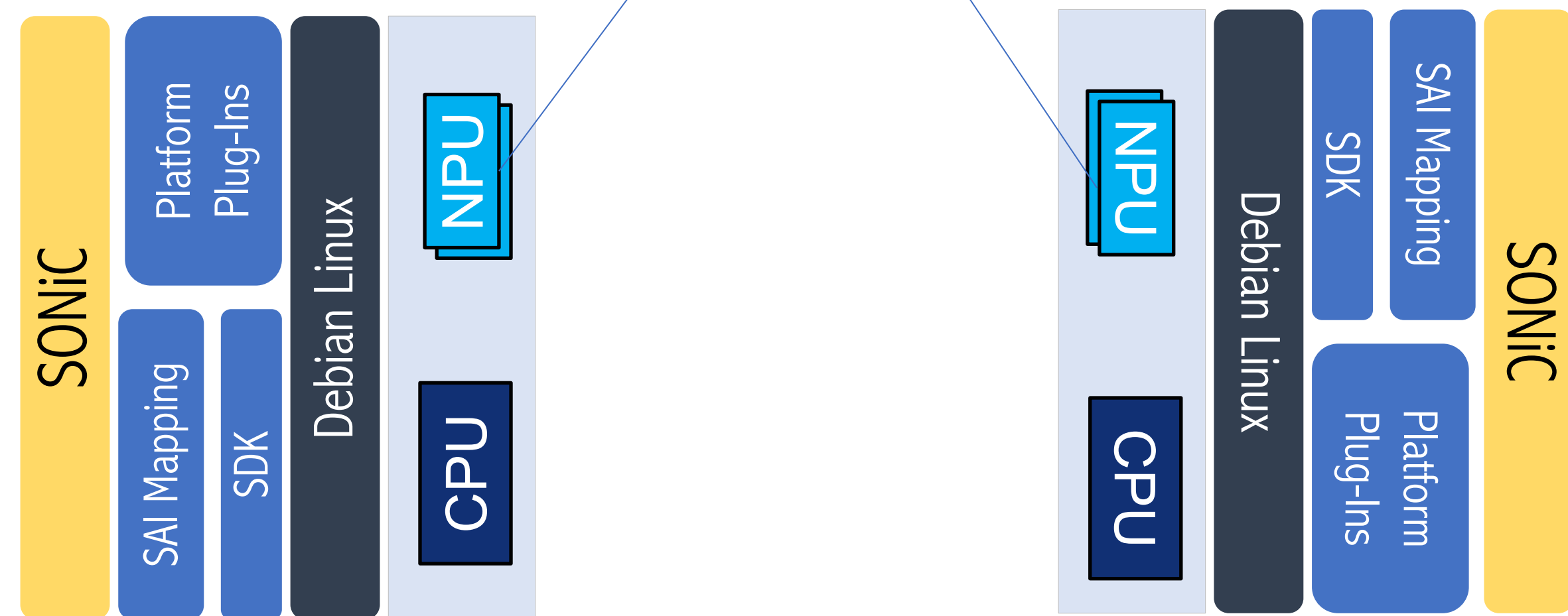
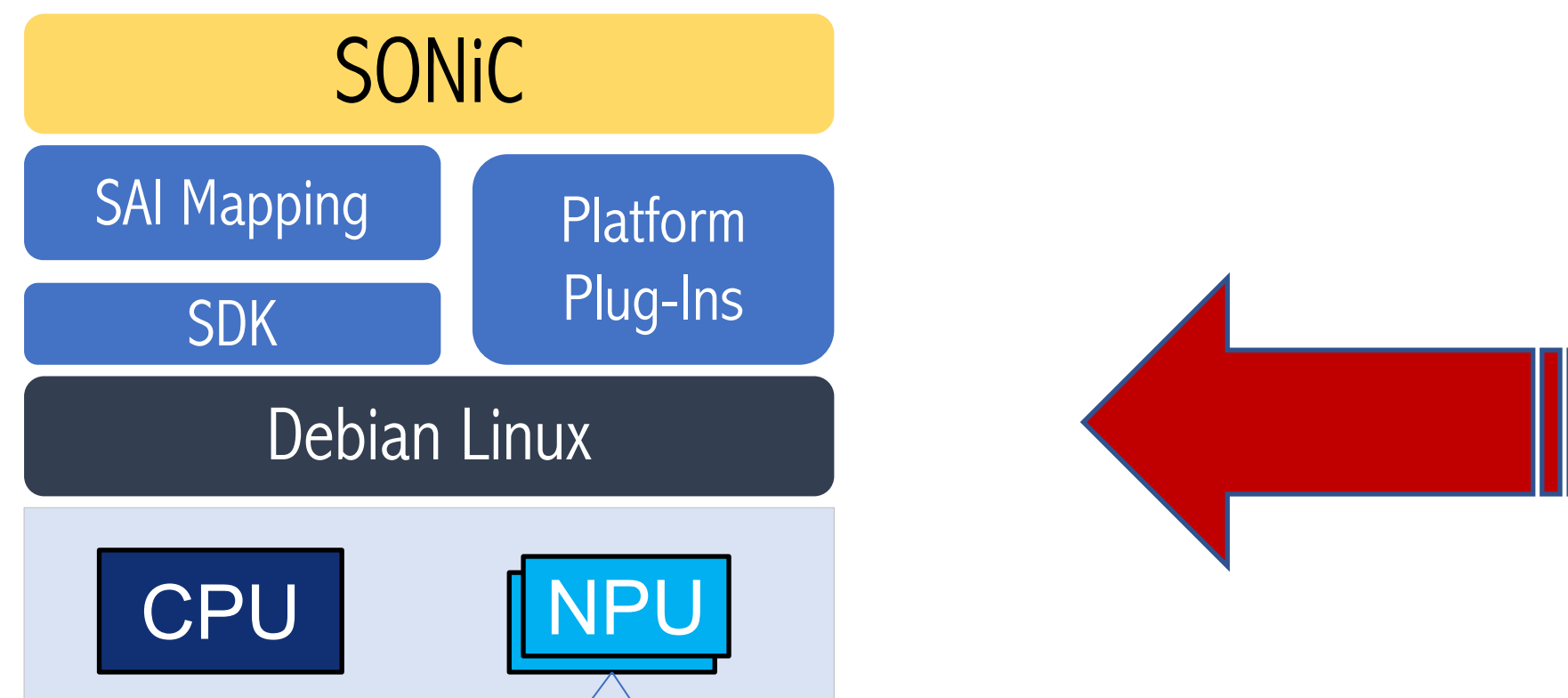
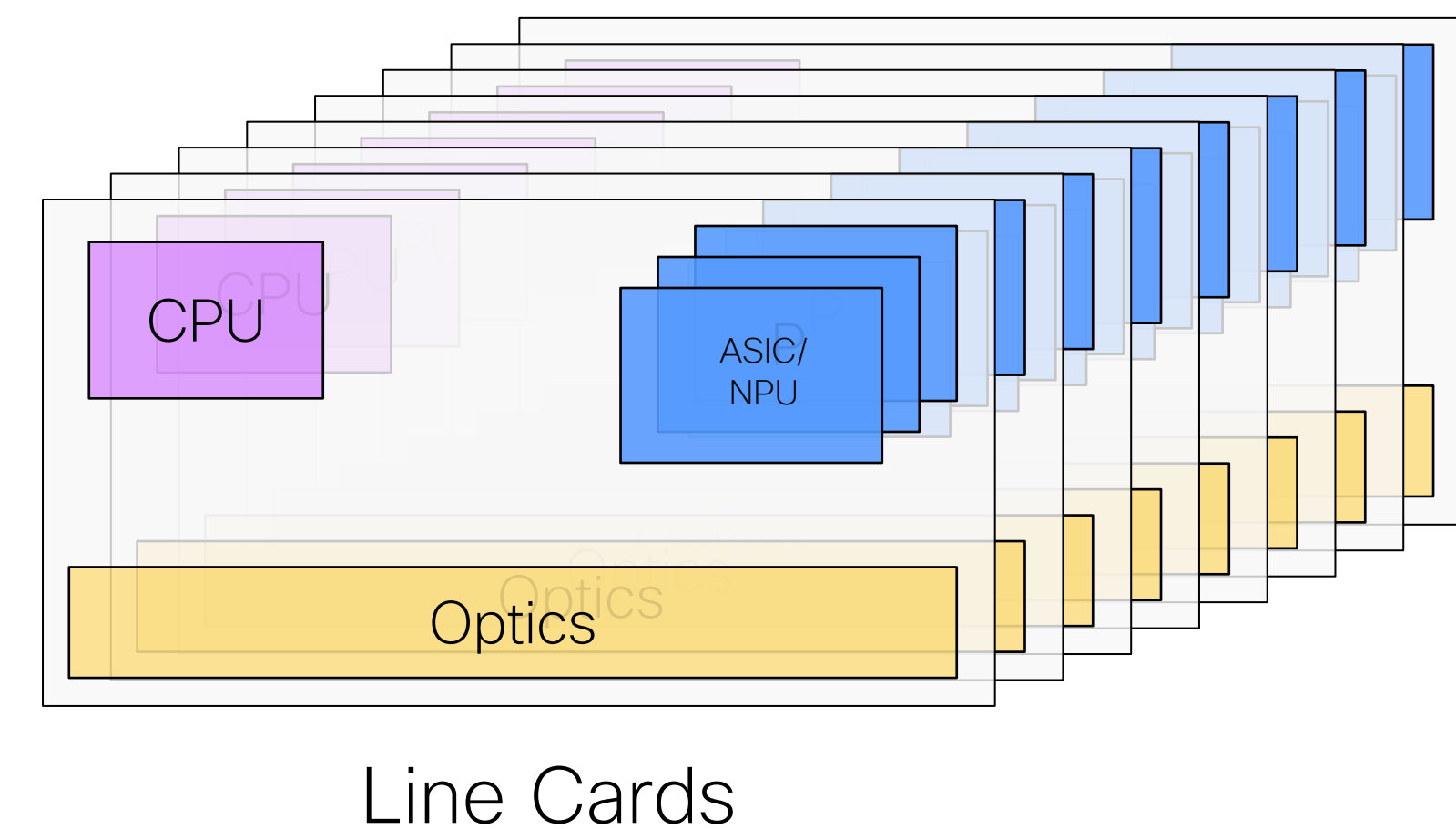
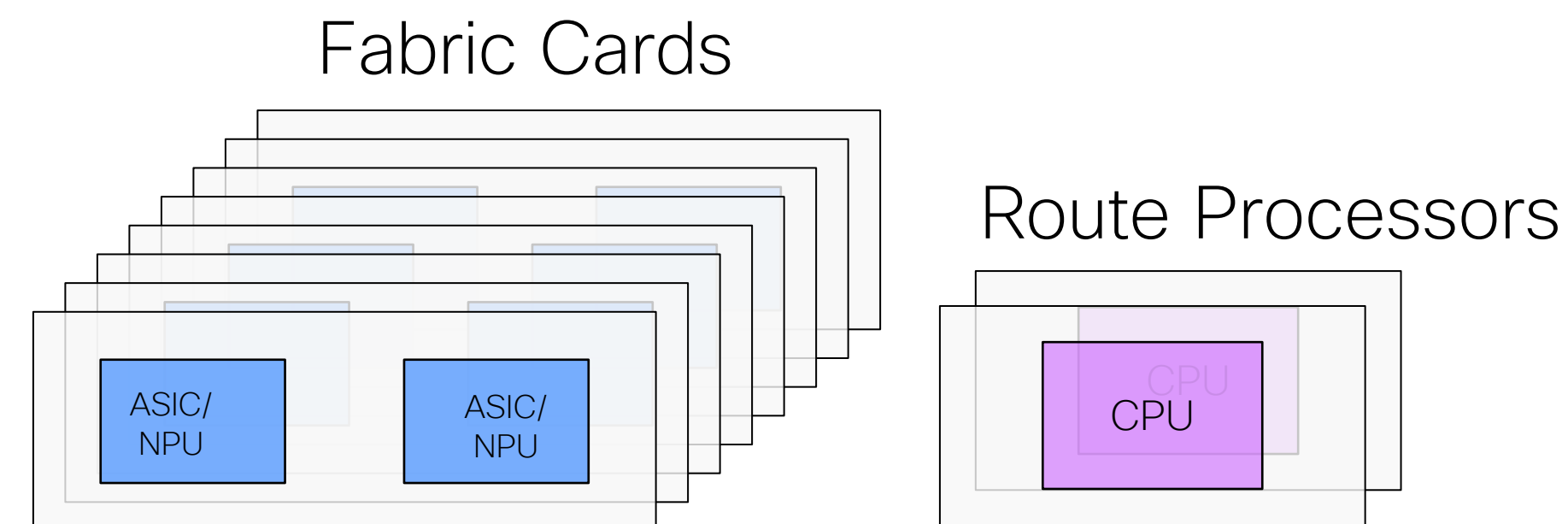


Cisco 8800

Multi-Instance SONiC



NETWORKING

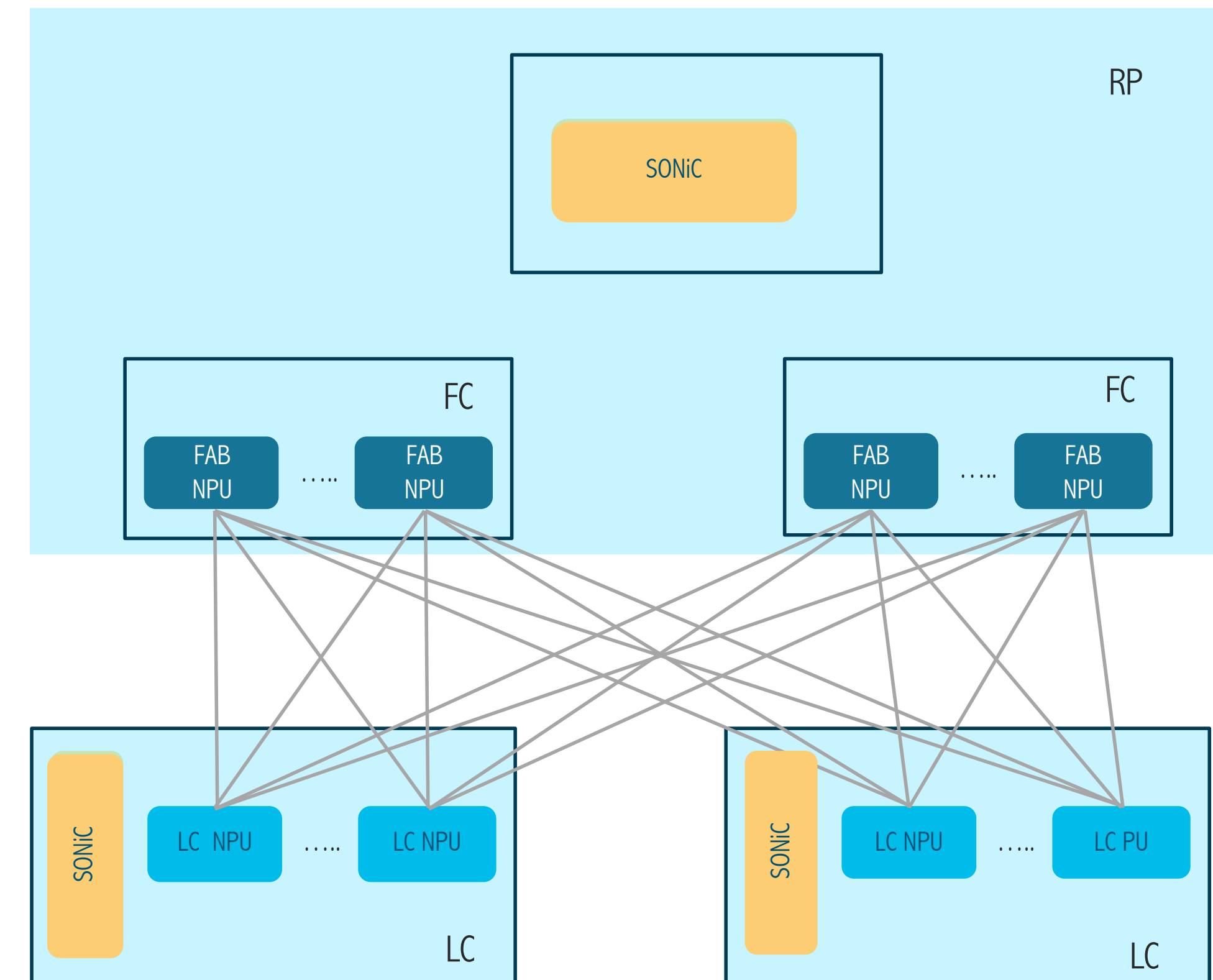


Forwarding Model

- Flexible fabric switching mode - Ethernet or VOQ
- Complete visibility within chassis
- Packet and byte counters, packet mirroring at each switching point
- Each CPU runs a unique SONiC instance
- BGP instance per NPU on the LC



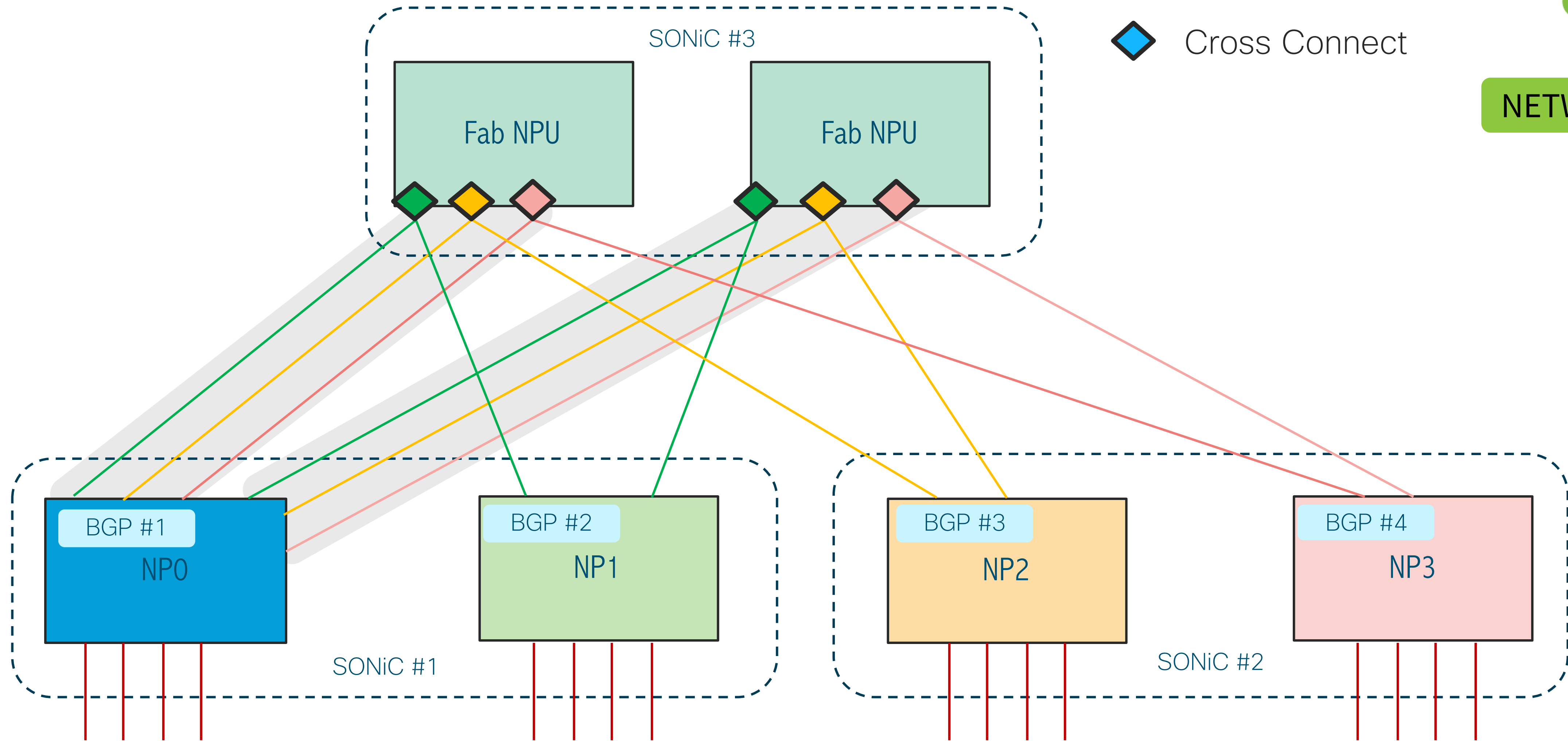
NETWORKING



Packet Forwarding Model



NETWORKING



Open for All.



OCP
GLOBAL
SUMMIT

MARCH 4 & 5, 2020 | SAN JOSE, CA