# pne-balancer - pne-bal

The pne-balancer distributes Ethernet frames received on ingress ports to egress ports in order to balance the traffic load over several egress ports. Balancing is based on bi-directional 2-tuple IP addresses or Round-Robin. Customized balancing criteria can be added. Both passive and active traffic is supported. An API allows for its integration into downstream consumers and management system.

features

- balance one or more 1, 10, 25, 40, 100 GbE ingress links

- one or more passive links balanced over egress ports – no return path

- one active link balanced over a group of ports – return path to same link

- IPv4 and IPv6 supported

- default balancing via bi-directional hash on 2-tuple IP addresses

- flexible granular balancing criteria can be added

- non-IP traffic to separate, designated or replicated to balanced ports

- configurable options include:

    - balance criteria

    - tags ethernet frames for origin port identification or routing

    - egress delivery links 1, 25, 40, or 100 GbE links

- CLI interface to control configuration and read statistics

- API option for direct integration into management systems

- statistics for ports, ingress and egress traffic

- dual power supply, resilient restart
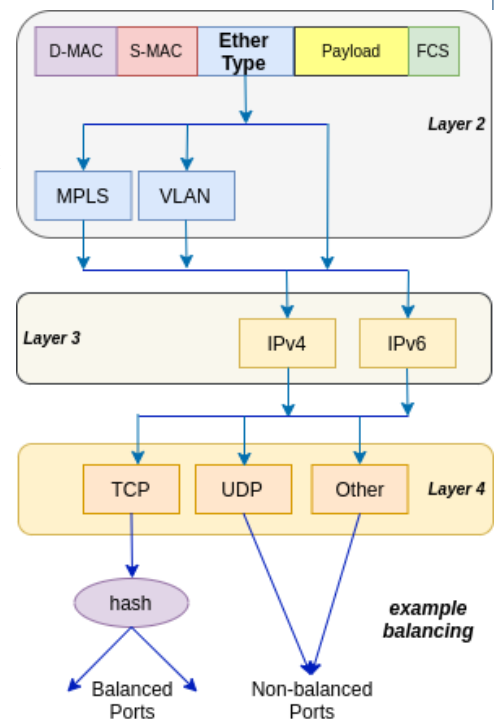
platforms

– BF2556X-1T-A1F

    – 1/25/40/100 GbE ports

– BF6064X-T-A2F

    - 64 x 100 GbE ports

connectivity

- QSFP28 SR, LR – 100 GbE

- SFP28 SR, LR – 25 GbE

- SFP28 Copper – 1 GbE

- DAC – 25 GbE & 100 GbE

- RJ45 - 1 GbE – Management Port