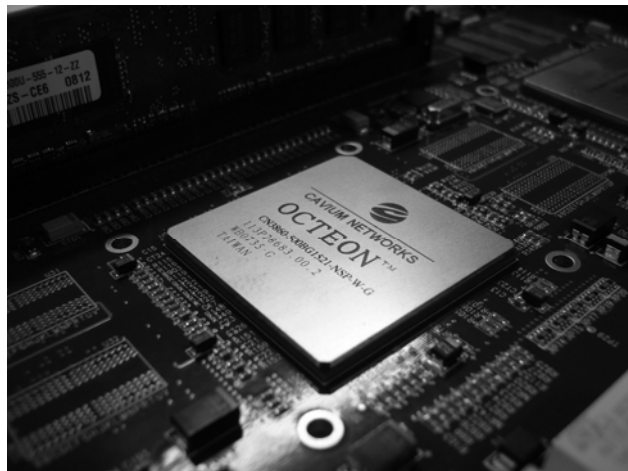




Lanbird ASN Gateway Application Suite

Lanbird ASN Gateway Suite has complied with the International standard specifications and provides solution on ASN GW functions with IEEE 802.16, IEEE 802.16e, WiMAX forum Network Architecture Standard Specification.

WiMax signaling which has adopted many standard specification (including Network Entry/Exit, ASN Anchored Mobility, RRM Relay, Paging/Idle Mode Operation, Authentication /Authorization /Accounting, IP version 4 Addressing, QoS and SFID management) and WiMAX data plane will satisfy users by minimizing every aspect of ASN Gateway product development cycle in design, development, and verification.



In order to maximize the System performance, Lanbird ASN Gateway Application Suite provides hardware and software solution package which can utilize ASN Gateway control plane and data plane more effectively. Octeon hardware platform multiprocessors and the software solution that can effectively control the control/data plane can maintain rapid increasing performance level, enables system wide support on expansion and management possible.

Lanbird ASN Gateway Application Suite S/W Features

- a) Standards
 - IEEE 802.16
 - IEEE 802.16e
 - WiMAX forum Network Architecture Stage 3 Release 1, version 1.2.1, Profile C
- b) Interfaces
 - R6 interface to the Base Station/
 - R4 interface for inter-gateway
 - R3 interface to Radius and the home agent
- c) Network Management
 - SNMP Agent and CLI interface

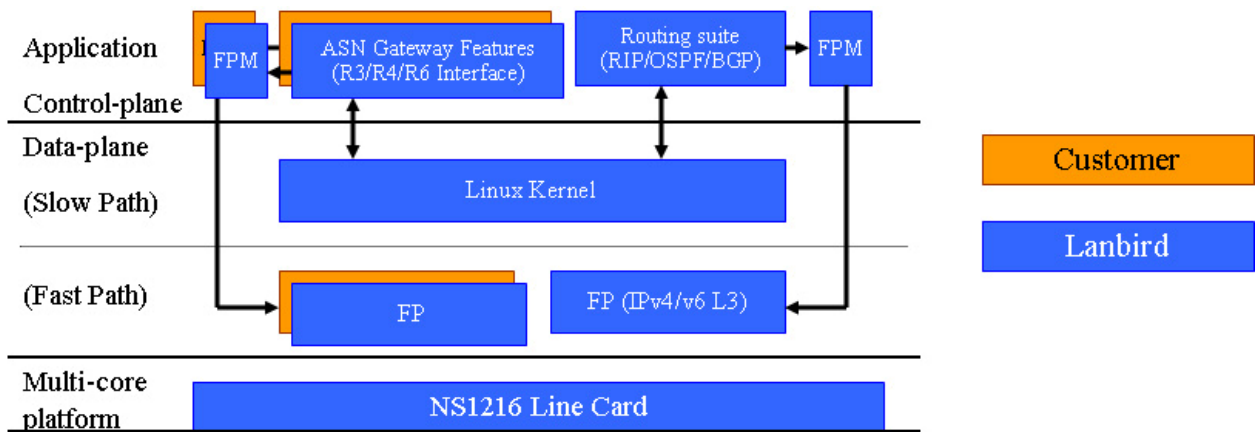
Lanbird ASN Gateway Application Suite Load Balancing S/W Features

- a) BS and Core-Network Interface
- b) Packet Distribution based on Session Info
- c) Scalability for Line Card Expansion

Lanbird ASN Gateway Application Suite S/W Components

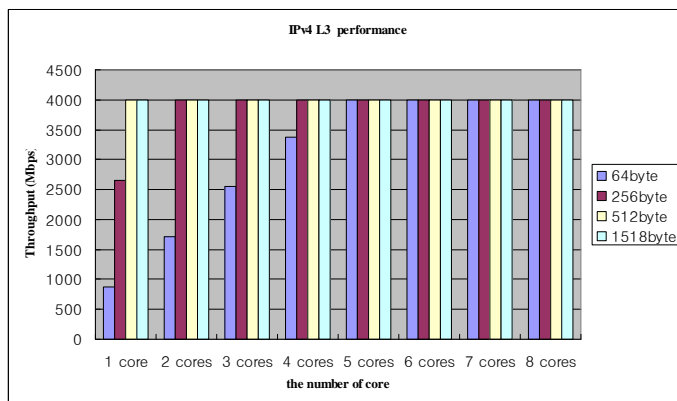
- a) Lanbird Linux OS - Kernel + driver + utilities
- b) SDK from Cavium Networks -- toolchain (cross/native)
- c) Routing Suite (Quagga)
- d) FPM (Fast-Path Manager)
- e) FP (Fast-Path code) - IPv4/v6 L3 forwarding
- f) ASN Gateway Features (R3/R4/R6 Interface)

Lanbird ASN Gateway Application Suite S/W Architecture



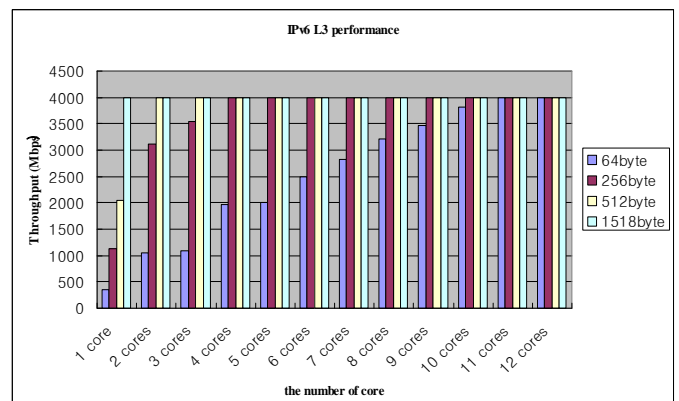
Performance Result of ASN Gateway Application Suite

IPv4 Performance



100% packet forwarding completed at only using 5 Cores.

IPv6 Performance



100% packet forwarding completed at only using 11 Cores.