

## NPU ASIC based Packet Broker System



### BUSINESS REQUIREMENTS



Network monitoring solution which offers real time traffic monitoring and provide the visibility of the network traffic.



The product should include network Traffic Filtering, LAG, Load Balancing, Port based flow mapping, packet slicing, with multiple management interfaces



Multi Platform solution for different market segments. NPU based for flexibility and ASIC based for cost sensitive applications



### OUR SOLUTIONS



Provided a Core Forwarding Engine which supports Packet Filtering & Classification



Designed & Delivered an efficient Packet Reassembly Engine at line rate



Transformed the legacy SNMP based control and management application to an SDN app



A Management platform with CLI, SNMP, WebUI, XML RPC & Netconf was provided as part of package



### TOOLS /TECHNOLOGIES



Cavium Octeon II (CN 6880), MIPS cross compiler, Broadcom Dune Arad



Octeon SDK, Octeon tool chain, including debugger, performance tuning, Broadcom SDK, Busy Box



Tail-f Confd as management agent



### BUSINESS IMPACT



The solution has enabled the customer to launch packet broker which supports line rate monitoring for all packet sizes including fragmented traffic



Selection of the NPU allowed the product to have a wider market to Telecom infrastructure as well by GTP correlation and the ASIC version helped penetrate cost sensitive market.



The product does the heavy lifting, allowing the monitor device to be a much simpler implementation with no necessity of doing any advance packet processing.

### About Happiest Minds Technologies:

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