

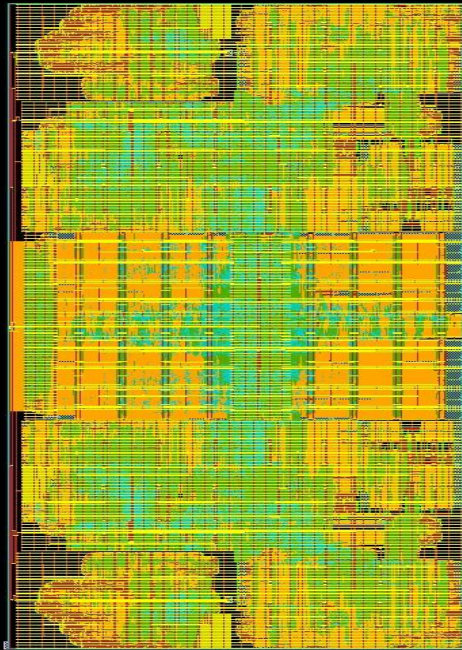


Dr. Paramesh Gopi

President and CEO

X-Gene's Revolutionary CPU

Processor Module



3GHz High-Performance CPU

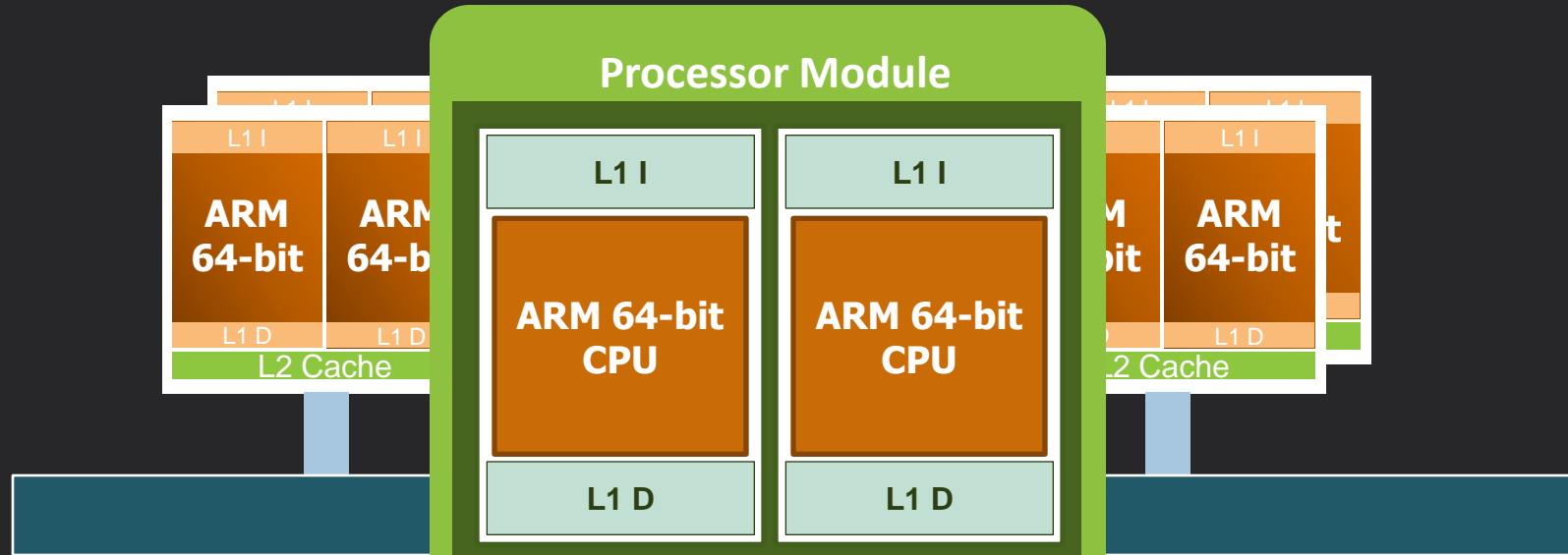
Super-Scalar, Quad-Issue OoO

Full CPU & I/O Virtualization

Server Class 64b-ARM v8

World's First 64b ARM Core

X-Gene Server on Chip



Multi-Terabit Coherent Fabric

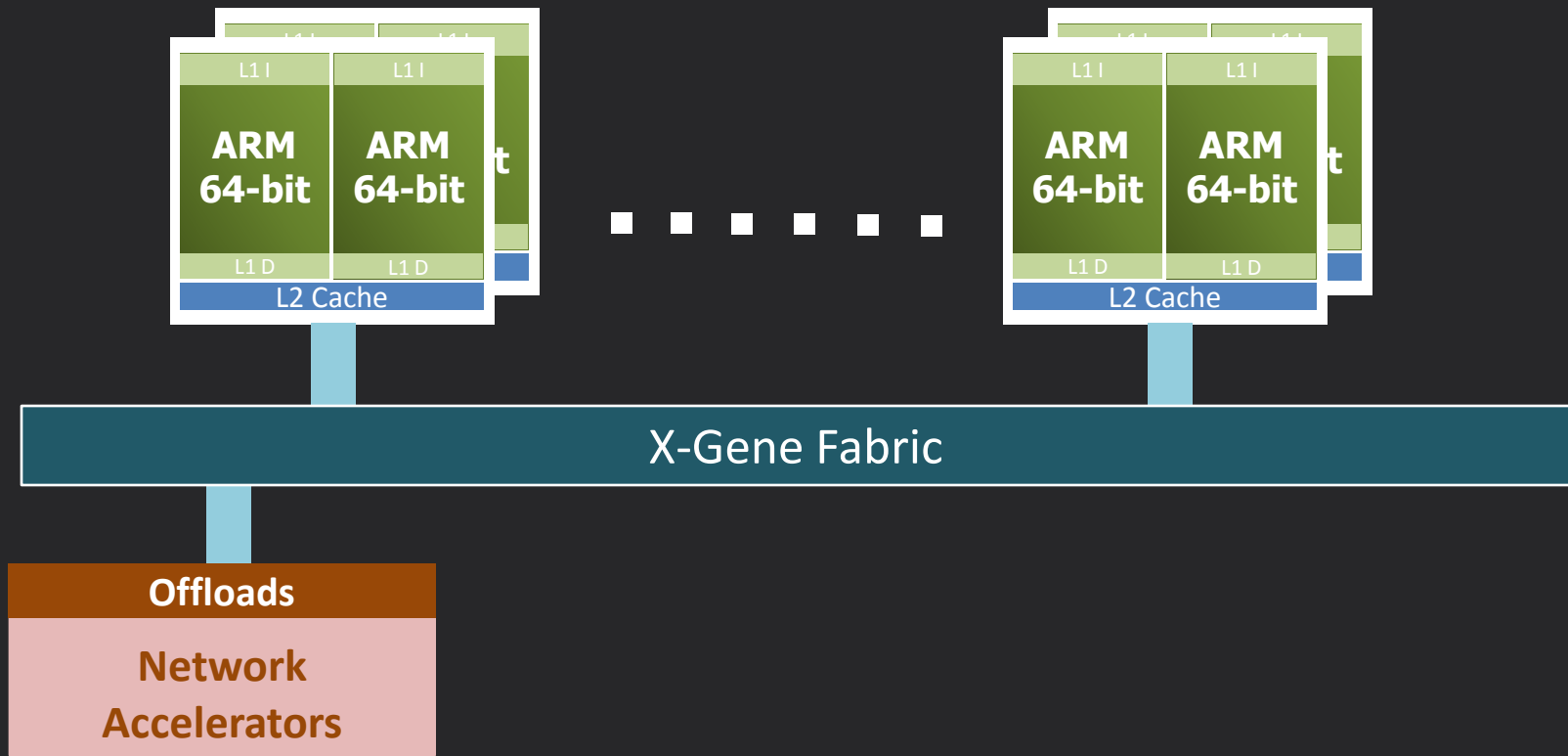
Unprecedented Memory Bandwidth

Fully Non-Blocking with QoS

Ultra Low Latency

Scalable Up to 128 Cores

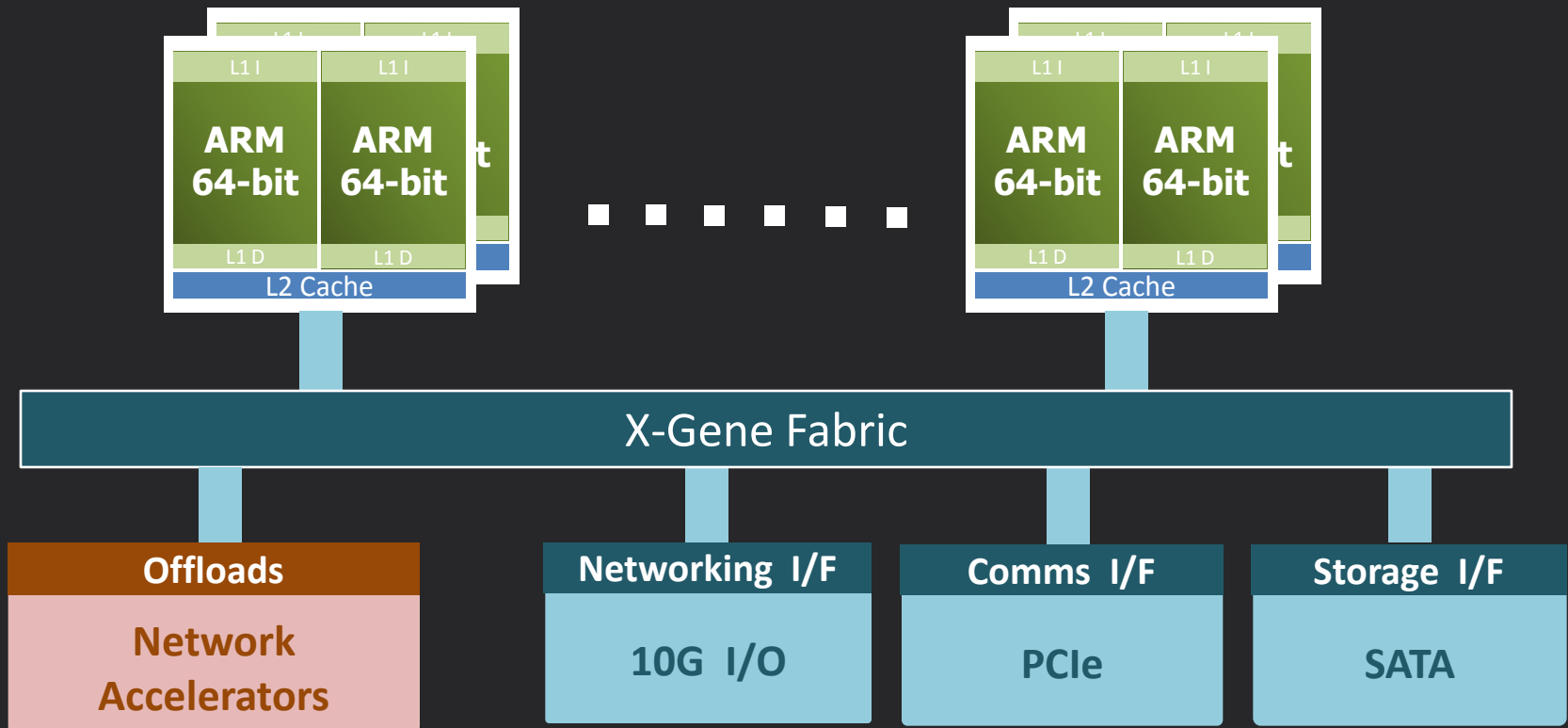
X-Gene Server on Chip



High Performance Network Accelerators

Full IO Virtualization

X-Gene Server on Chip



Integrated Communications I/O

Integrated NICs + 10/40/100G

X-Gene : System Impact

Million Session 1RU Fanless Servers



Order of Magnitude Reduction in TCO



Denser, Cooler, Smaller



Vinay Ravuri

VP & GM of Processor Products

X-Gene.



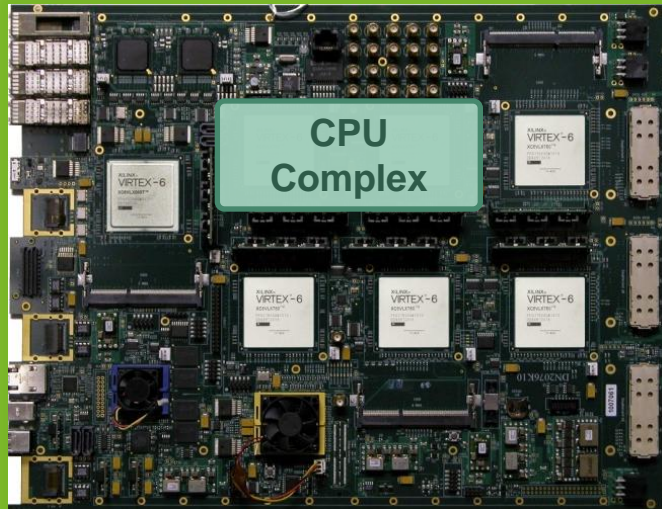
Energy-Proportioned Server-on-a-Chip

Server Class ARM 64-bit CPU

Optimally Sized Cloud SoC

Virtualization & Server Ecosystem Support

X-Gene Platform



64b ARM Multi-Core

3GHz

Coherent Terabit
Up to 128 Cores

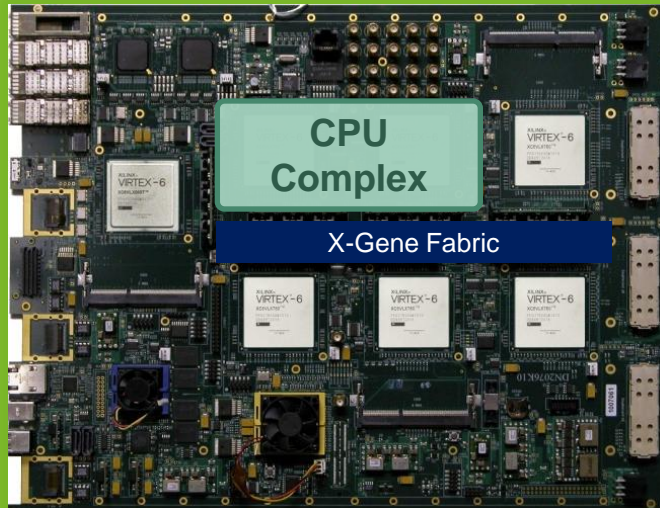
Fabric
Quad Issue Out-of-Order

80 GB/s Mem Throughput

Ultra Low Latency

X-Gene Platform

64b ARM Multi-Core



Coherent Terabit
Fabric

Cloud Server I/O
80 GB/s Mem Throughput

Ultra Low Latency

Integrated Ethernet NIC

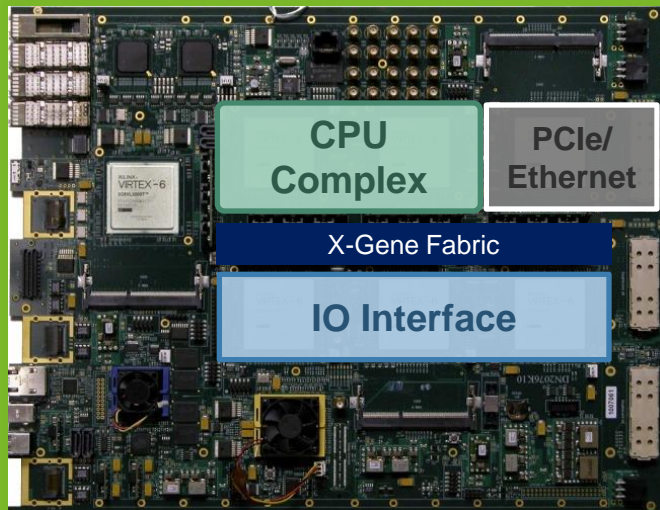
Integrated PCIE, Storage

X-Gene Platform

64b ARM Multi-Core

Coherent Terabit
Fabric

Cloud Server I/O

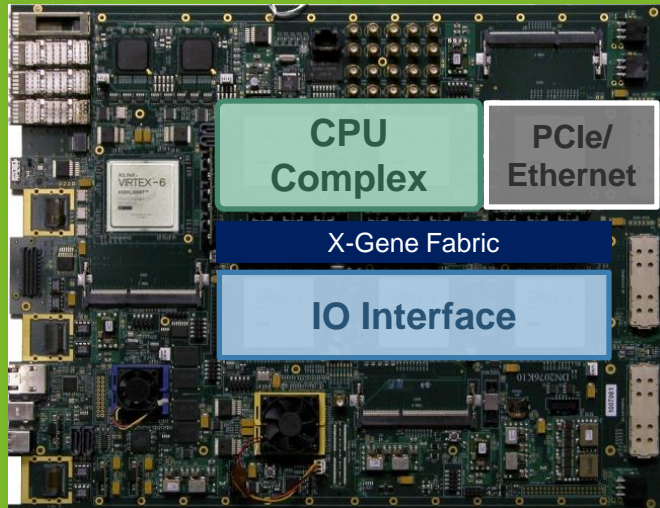


Integrated Ethernet NIC
LAMP Stack

Integrated PCIE, Storage

X-Gene Platform

64b ARM Multi-Core



Coherent Terabit
Fabric

Cloud Server I/O

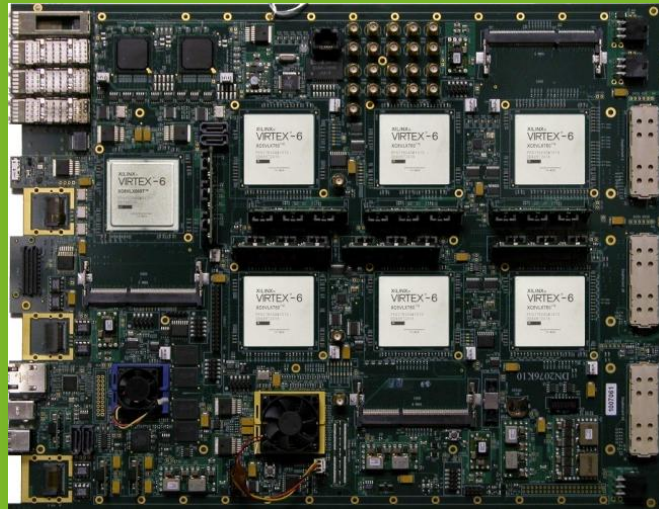


LAMP Stack

X-Gene

Platform Demonstration

X-Gene Platform



Available Jan. 2012

Silicon Available

2H.2012