

AdvancedTCA Shopping Extravaganza

Advantech x86 blades

Why we think we have the best ones

Peter Marek

Aren't they all the same ?



- All suppliers use same iA silicon
- 10GE backplane connectivity is common on current generation (Intel Xeon 56xx series)
- Will pure performance numbers differ that much ?
- Some items to change on next gen blades (NDA stuff)

They aren't all the same !

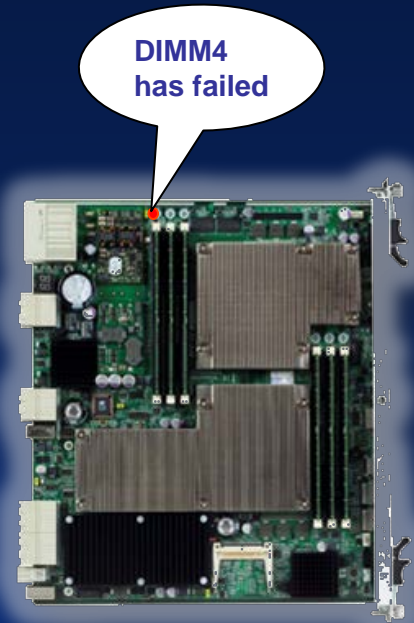


- Design Trade-offs to be made
 - # of DIMM slots vs. memory performance vs. thermal design / airflow impedance
 - Advantech blades optimized for memory throughput
 - Advantech blades have quite uniform impedance across slot
 - Simplifies system integration
- Support for higher TDP CPUs
 - Higher CPU horse powers outside the NEBS world
- Advantech support single & dual socket blades



Not all have the same:

- Added value features
 - Dynamic power budgeting
 - Redundant BIOS and BIOS settings
 - Change BIOS settings over IPMI
 - HPM.1 support for IPMI F/W, BIOS, FPGA
 - TimeSync,
- Wouldn't it be nice if a fault told you where it was ?
 - Diagnostic software
 - Diag-LEDs to display faulty FRUs even when blade is extracted



Are we all doing the same again ?

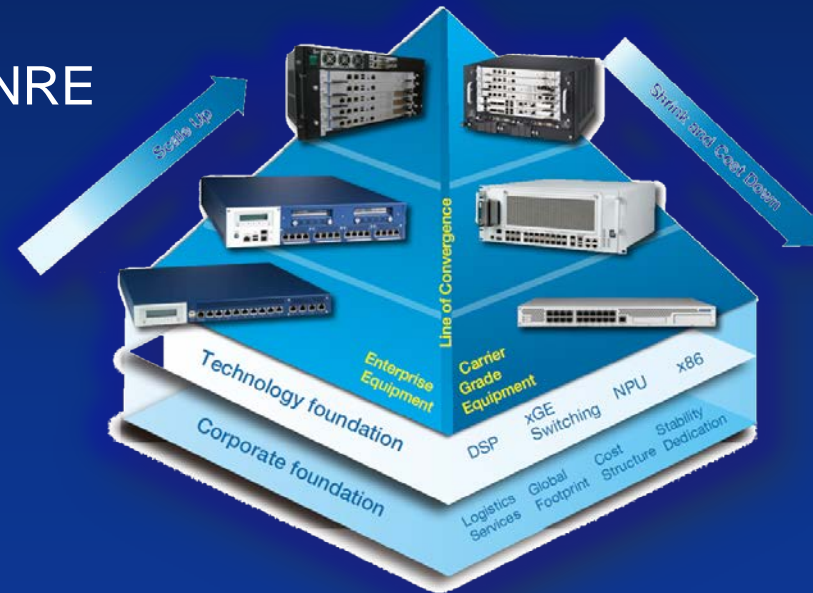
- Yes, but even better....
 - Faster CPUs, faster memory, faster I/O....
 - New BIOS/IPMI features
- Flexibility for Fabric connectivity, I/O & Acceleration:
The Fabric Mezzanine Module (FMM)
- Advantech IPMI
 - Move from single threaded “main” loop to RTOS environment
 - Mature code: >80% code sharing between projects
 - Easy to apply new features, bug fixes and customization during product life cycle and across product range



We aren't all the same !



- Inhouse design
 - No outsourcing, even if it is “just” iA
- Branding
 - Daily business / low cost / low NRE
- Customization
 - Daily business
 - BIOS, F/W, Hardware
- Scalability
 - From table top to rackmount to bladed products



Thank you for listening

Any questions?

See you at our booth in the exhibit hall or contact
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ADVANTECH

*Accelerating Network Platform Evolution
Enabling an Intelligent Planet*