

General comment: Cisco believes that SPEC should focus on workload issues and that The Green Grid should focus on hardware and configuration issues.

General comment: Assuming that blade servers are treated as unique devices, with power and efficiency derived for the blades alone, the blade chassis overhead should be separately measured and disclosed. The minimum blade chassis overhead can be derived by measuring the difference between the inlet power and the sum of blade power for a minimal configuration, the maximum blade chassis overhead can be similarly derived by measuring the difference between the inlet power and the sum of blade power in a maximum configuration. The minimum and maximum blade chassis overhead should be disclosed in a standard form so that users can evaluate the efficiency of blade solutions that are relevant for their applications. Limits for blade chassis overhead may be considered in the future once data is collected and assessed for various classes and types of blade chassis and appropriate adders are evaluated for specific chassis features. There are various chassis features that need to be considered which add significant value for some applications and will impact the overhead power usage.

General comment: Although the assessment of idle power limits according to configuration is not ideal, we think that the use of these limits is the most expedient assessment in the near term until a more workload focused assessment is available.

Line 213: Insert the definition:

Blade Network Equipment: A network device that is designed for use in a blade chassis. A blade network device is dependent upon shared blade chassis resources (e.g., power supplies, cooling) for operation.

Line 398: **Change to:**

Server Utilization: The ratio of instantaneous computing activity to full-load computing activity at a specified voltage and frequency. The limiting element of computing activity may be memory, CPU or I/O.

Line 411-433: Cisco believes that there is no merit in treating CPUs with a varying number of cores differently than a varying range of frequencies. In other words, core count should be allowed to vary within a family.

Line 480: Power supply requirements: apply to all servers, including blades **server chassis. <- add servers**

Line 541: Cisco supports option (2) aligning active energy mode requirements among all server classes including blades

Line 548-561: To test blade efficiency, perform AEM test with N blades (full chassis ) and N-1 blades. Then to derive chassis test the chassis with 1 blade and n blades, subtracting the blade power from step 1, to disclose the chassis power over for minimum and maximum configurations.

Line 858: Cisco recommends that VARs should be able to reference the source system Energy Star qualification if the hardware and is unchanged.