

**METHOD TO ASSESS ENERGY EFFICIENCY OF HPC SYSTEM OPERATED
WITH & WITHOUT POWER CONSTRAINTS**

ABSTRACT

5 A method of assessing energy efficiency of a High-performance computing (HPC) system,
including: selecting a plurality of HPC workloads to run on a system under test (SUT) with one
or more power constraints, wherein the SUT includes a plurality of HPC nodes in the HPC
system, executing the plurality of HPC workloads on the SUT, and generating a benchmark
metric for the SUT based on a baseline configuration for each selected HPC workload and a
plurality of measured performance per power values for each executed workload at each selected
10 power constraint is shown.

Fig. 1