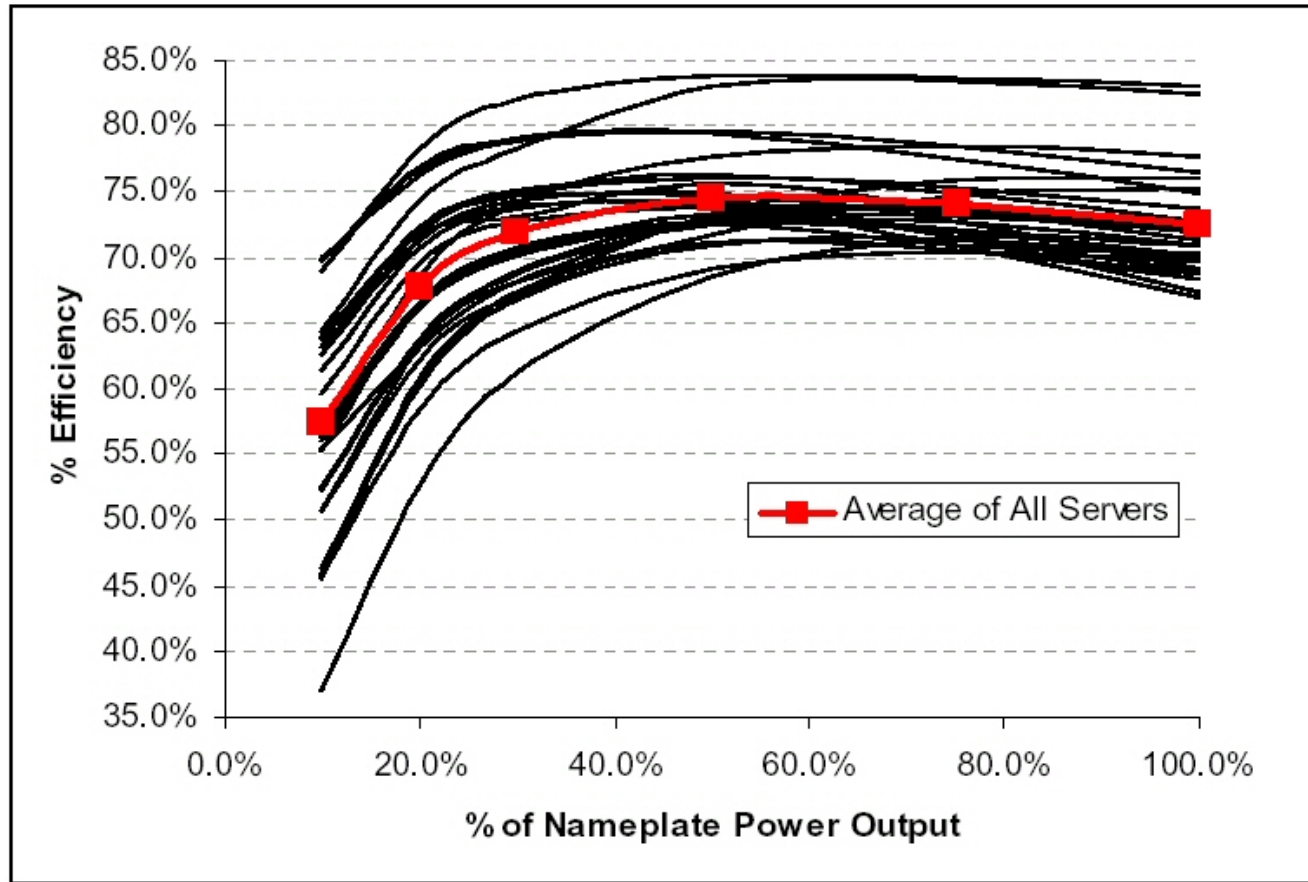


PSU efficiency



PSU Efficiency



Source: Lawrence Berkeley National Laboratory
January 2007

PSU efficiency

Conclusion

- Servers are normally not fully equipped with hard-drives, the CD/DVD player is not used and the graphics board is not running, total load is often 50% of maximum capacity.
- Most servers are run using two redundant PSU's. This means that in normal use two PSU's share the total load. Each PSU load is 25% of maximum capacity.
- The server PSU's should be selected with the highest energy efficiency in the range between 25 and 50% load since this is the normal operating point. Starting with an oversized server will dramatically decrease energy efficiency because energy efficiency is dependant of the actual load connected to the PSU and not the "ideal load" figures often presented by the manufacturer.



Thank you for your interest!

(More information can be found at www.netpower.se)

