

# End System Tuning

## End-System (Host) Tuning

This section contains hints for tuning end systems (hosts) for maximum performance.

- [Considerations for sizing TCP buffers](#)
- [Tuning hints for specific Operating Systems:](#)
  - [BSD](#)
  - [Linux \(Interface queue lengths\)](#)
  - [MacOS/X](#)
  - [Solaris](#)
  - [MS-Windows](#)
- [Implications of Host architecture](#) (e.g., [Bus architecture and performance](#))
- [Scaling servers](#) for many connections and high throughput
- [Adapters and Drivers](#)
  - [Large-Send Offload \(LSO\)](#)
  - [Interrupt Coalescence](#) (or "Interrupt Moderation")
  - [Checksum Offload](#)
  - [TCP Offload Engines \(TOEs\)](#)

## References

- [Enabling High Performance Data Transfers - System Specific Notes for System Administrators \(and Privileged Users\)](#), Web page edited by Matt Mathis and Raghu Reddy (PSC). Covers performance basics and includes tuning hints for many Unix variants as well as Windows.
- [TCP Tuning Guide](#), by Brian L. Tierney (LBNL). A short guide on TCP buffer tuning, with specific sections on Linux, FreeBSD, and Solaris.
- [Unix IP Stack Tuning Guide](#) by Rob Thomas (Team Cymru). Slightly dated but compact and covering many Unix variants.
- [Wikipedia article: <i>TCP Tuning</i>](#)

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