

ESnet is One of DOE's Areas of Excellence

ESnet provides researchers with access to DOE computing resources, data repositories, unique research instruments and each other, with direct connections to more than 30 major DOE sites at bandwidths up to

622 Mbps (million bits per second). Connectivity to the global Internet is maintained through "peering" arrangements with more than 100 separate Internet Service Providers and Research and Education networks. Funded principally through DOE's Office of Science, ESnet is managed and operated by the ESnet staff at Lawrence Berkeley National Laboratory (LBNL).



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Networking is now so integrated into day-to-day scientific research operations, that it would be impossible to effectively accomplish the science mission of the Department and the laboratories without it. A broad spectrum of "at-a-distance" interactions between people and resources, all at widely dispersed sites, are critical to the success of the Department's science mission. ESnet represents a consolidated and cost-effective approach to providing the requisite high-performance, leading-edge networking support across the agency.

ESnet is the largest multi-program collaborative activity within DOE

ESnet now carries more research traffic in a single day than it did during the entire year of 1992. As the computing and communications requirements of the Department's programs continue to evolve, so must ESnet continuously improve. Improved ESnet capabilities are required to provide higher levels of network performance, to support wider network availability, and to enable use of more sophisticated applications.