

基于 perfSONAR 的高能物理网络性能监测平台研究与实现

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网络性能测量是网络测量领域的核心分支，是量化网络服务的重要指标，广泛地应用于服务选择、路由选择、拥塞控制、网络性能优化、未来网络体系架构设计等方面。利用面向服务的网络性能监控框架（perfSONAR），构建面向高能物理领域网络性能监测平台，通过对高能物理领域不同节点的网络性能探测，及时发现并排除网络故障和瓶颈，为高能物理数据高速、稳定传输提供可靠的保障。

Network performance measurement is the core branch of the network measurement research. It is an important indicator of quantitative network service. It is widely used in service selection, routing, congestion control, network performance optimization and the future network architecture design, etc. We construct a high-energy physics network performance monitoring platform using service-oriented network performance monitoring framework perfSONAR. The platform can detect and eliminate network faults and bottlenecks through different nodes of network performance detection, and it can provide a reliable guarantee for high-energy physics data high speed, stable transmission.

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