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摘要: DataSocket技术基于TCP/IP协议并对其进行高度封装,能在测试测量过程中实现服务器与多用户的实时数据交换与共享,而用户不必关心程序底层的细节。本文分析 DataSocket 的内部组成及利用URL进行资源定位的方式,详细讨论基于DataSocket的 LabVIEW 远程测控方法。通过局域网开发的典型应用实现网络测控数据的实时发布与读取。随着测控系统的网络化,其应用前景将越来越广阔。

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DataSocket based remote measurement and control in LabVIEW

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Abstract: DataSocket is based on TCP/IP and pulls TCP/IP together. It can exchange live data between client and multiple users in measurement applications without entangling them in the low-level details. The paper analyzes the inner components and the URL way of resource locating, and discusses the approach of Remote Measurement and Control based on DataSocket in LabVIEW. The system developed via LAN publishes or subscribes live data successfully. The application prospect of DataSocket will be broadened along with the networking of Measurement and Control.

Key words:

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