

网络、通信与安全

一种基于应用层ARQ的传输机制

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摘要 提出了一种基于应用层ARQ的传输机制: BAATM (Transmission Mechanism Based on ARQ of the Application Layer)。基于BAATM, 提出了一种数据封装: DDoIP (Data Directly over IP, 数据直接IP封装)。DDoIP头部开销比TCP节约了20字节, 比UDP节约了8字节; 在传输数据量相同时, BAATM有效性比TCP提高了约30%, 比TFTP提高了约50%。实验证明了BAATM的可行性。

关键词 [BAATM](#) [DDoIP](#) [TCP](#) [UDP](#) [TFTP](#)

分类号

Transmission protocol based on ARQ of application layer

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Abstract

This paper proposes a new transmission mechanism based on ARQ of the application layer, BAATM. Based on BAATM, this paper proposes a new data encapsulation, DDoIP (Data Directly over IP). The overhead of DDoIP is 20 bytes less than that of TCP, and 8 bytes than that of UDP. Transmitting the same quantity of data, compared with TCP and TFTP, BAATM improved the performance about 30% and 50%. BAATM has been proved to be true.

Key words [BAATM](#) [DDoIP](#) [TCP](#) [UDP](#) [TFTP](#)

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