论文

宽带实时VBR业务与尽力而为业务复用系统的性能研究

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该文以宽带实时VBR业务与尽力而为业务复用系统且对实时业务采取完全共享接纳策略为背景,以系统平 均剩余容量、实时业务丢包率和尽力而为业务平均延时为主要研究对象,通过对多业务排队模型深入分 析,导出了几个主要性能指标的计算公式,得出了实时VBR业务丢包率随呼叫级负荷增加并非单调增加的 新结论。仿真验证了公式的正确性。

综合业务; On/Off; 剩余容量; 丢包率; 延时 关键词

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Performance Study on Multiplex System of Broad Band Real-Time VBR Service and Best Effort Service

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Abstract

Based on the broad band multiplex system which provides real time VBR services with a complete sharing policy and best effort service, this paper focuses its attention on the average residual capacity, packet loss probability of real time services and average delay of best effort service. Through comprehensive analysis of the multi-service queuing, this paper educes computation formulas of the main performance indexes and arrives at a new conclusion that the packet loss probability is not a monotonic function of the call level load. Simulation results prove that the formulas are correct. Key words Integrated service On/Off Residual capacity Packet loss probability Delay

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