网络、通信、安全

基于WCDMA系统混合业务的新型调度算法

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摘要 WCDMA系统混合业务下设计调度算法要考虑信道条件,要区分业务保证用户的QoS要求,避免用户"饥饿"现象,同时也要尽可能提高整个系统的吞吐量和调度的公平性。由此,在比例公平调度算法(PFS)基础上基于C/I、QoS、饥饿权重提出区分业务类型的比例公平分组调度算法(CQSSD—PFS),同时引入实时业务和系统容量补偿模型,仿真结果表明可有效确保各类业务之间的短期、长期公平性和较高的系统吞吐量。

 关键词
 分组调度算法
 C/I
 服务质量
 比例公平调度算法
 比例平分组调度算法

分类号

One novel multi-services scheduling algorithm in WCDMA system

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Abstract

Designing scheduling algorithm in multi-traffic WCDMA System must take channel condition into account, and differentiate the service to guarantee the demand of QoS, avoid the user's starvation, meanwhile try to improve the throughput and the fairness of the scheduling in the system as much as possible. Therefore, on the basis of PFS, a service differentiated Proportional Fairness Scheduling algorithm (CQSSD-PFS) based on C/I, QoS, and starvation weight is proposed. It also introduced real time service and system capacitance compensate model. Simulation results showed that effectively insured all kinds of service's short-term and long-term fairness and the throughput of the system.

Key words packet scheduling algorithm C/I Quality of Service (QoS) Proportional Fairness Scheduling (PFS) CQSSD—PFS

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