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论文

IPTV系统中内容访问和分发策略

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摘要:

通过研究IPTV(IP电视)系统中的节目访问规律,拟合节目访问随机序列,构建节目访问模型. 以此访问模型为输入,建立典型的IPTV系统,研究中心节点并发流处理能力、边缘节点缓存能力两个参数和节目访问规律之间的匹配关系及其对内容分发效果的影响. 仿真结果表明:在给定的服务质量要求下,性价比最优的系统配置和节目访问规律密切相关,满足节目访问规律的要求后,继续增加系统投资没有实际意义;主动控制节目热点、疏导系统忙时业务量可以有效降低系统成本,提高服务质量.

关键词: IP电视; 互动电视; 内容分发网络; 边缘缓存; 用户访问模型

The establishment of a 3D digital model of a bat's vocal organs using micro-CT

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Abstract:

Based on the analysis of the statistical data of the media access times in a multi services operator's (MSO) media-on-demand network in one day, a random media access model was generated. Based on this media access model, an IPTV system was built, and several key issues, such as the throughput of central server and the cache ratio of the regional servers, and on content delivery policies were studied. The simulation result showed that the increasing throughput capability of the central server and the cache ratio of the regional servers can increase the QoS of the IPTV systems only when these parameters can not meet the requirement of content access regulation.

Keywords: IPTV; media-on-demand; content delivery network; edge cache; access model

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