

私有云平台中的数据传信信道均衡模型仿真

陈仁太, 钟 帅, 卿 波

(成都师范学院 信息中心, 四川 成都 611130)

摘 要: 私有云平台进行云数据传输和调度过程中, 数据传输信道是实现信息通信的通道, 对私有云平台中的云数据传输信道进行均衡设计, 以提高云数据传输的抗干扰能力, 降低数据传输的误码率. 提出一种基于判决反馈均衡串扰抑制的私有云平台数据传输信道均衡算法. 进行私有云平台的云数据交互结构构架及信道模型构建, 进行云数据传输的信息融合处理, 采用自适应串扰匹配检测方法进行数据传输的码间干扰抑制, 采用判决反馈均衡串扰抑制, 进行私有云平台的信道均衡设计, 保证私有云平台云数据传输和信道调制的收敛性. 实验分析得出, 采用该方法进行私有云平台的云数据传输, 能有效去除码间干扰, 信道均衡性较好, 数据传输误码率低于传统方法.

关键词: 私有云平台; 数据传输; 信道均衡; 误码率

Simulation of Data Transmission Channel Equilibrium

Model in Private Cloud Platform

CHEN Ren-tai, ZHONG Shuai, QING Bo

(Information Center, Chendu Normal University, Chendu, 611130 China)

Abstract: Cloud data transmission and scheduling process of private cloud platform and need to channel data transmission to achieve information communication, to private cloud platform in cloud data transmission channel of balanced design, improve the anti-interference ability of the cloud data transmission, reduce the error rate of data transmission. A data transmission channel equalization algorithm based on decision feedback equalization for private cloud platform is proposed. Were private cloud platform of cloud data structure interaction framework and the channel model construction, information fusion for cloud data transmission, matching detection method for data transmission of intersymbol interference suppression using adaptive interference, using decision feedback equalization crosstalk suppression, private cloud platform design for channel estimation and equalization, guarantee the convergence of private cloud platform cloud data transmission and channel modulation. Experimental analysis shows that the proposed method is used to transfer the cloud data of the private cloud platform, effectively removing the interference between the codes and the channel equalization, and reducing the error rate of the data transmission.

Key words: private cloud platform; data transmission; channel equalization; bit error rate

作者简介:

陈仁太 男, (1976-), 讲师. 研究方向为教育信息化、计算机网络、数据挖掘技术、云计算. E-mail: chenrentai_dz@163.com.

钟 帅 男, (1983-), 硕士, 讲师. 研究方向为计算机网络、云计算.

卿 波 男, (1977-), 讲师. 研究方向为计算机应用技术、软件工程、云计算.