

# SkyEye 平台 LEON2 VxWorks 仿真研究

赵 愚, 席 隆

(中国科学院 空间应用工程与技术中心, 北京 100094)

摘 要: 在分析 SkyEye 逻辑结构和 VxWorks 操作系统启动原理的基础上, 探索了 LEON2 模拟环境下 VxWorks 仿真的基本方法, 完善了 SkyEye 对 BIN 文件的装载兼容和 LEON2 模拟器的部分指令, 并对现有问题进行了分析, 为完整操作系统仿真提供了基础.

关键词: SkyEye; LEON2; 模拟器; VxWorks; 系统仿真

## Research of LEON2 VxWorks Simulation on SkyEye Platform

ZHAO Yu, XI Long

(Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences, Beijing 100094, China)

Abstract: Based on analysis of logical architecture of SkyEye and thesis of VxWorks operating system booting, this paper researched the basic approach of simulating VxWorks in LEON2 simulation environment, improved the compatibility of SkyEye for BIN files, added some instructions for LEON2 simulator, analyzed the existing problems of the LEON2 simulator on SkyEye, and provided the foundation for the whole operating system simulation.

Key words: SkyEye; LEON2; simulator; VxWorks; system simulation

作者简介:

赵 愚 男, (1992-), 硕士研究生. 研究方向为计算机应用技术.

E-mail: zhaoyu1504@qq.com.

席 隆 男, (1965-), 正高级工程师. 研究方向为空间综合电子学.