



Article

Performance Evaluation Method for Intelligent Computing Components for Space Applications

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Abstract: The computational performance requirements of space payloads are constantly increasing, and the redevelopment of space-grade processors requires a significant amount of time and is costly. This study investigates performance evaluation benchmarks for processors designed for various application scenarios. It also constructs benchmark modules and typical space application benchmarks specifically tailored for the space domain. Furthermore, the study systematically evaluates and analyzes the performance of NVIDIA Jetson AGX Xavier platforms and Loongson platforms to identify processors that are suitable for space missions. The experimental results of the evaluation demonstrate that Jetson AGX Xavier performs exceptionally well and consumes less power during dense computations. The Loongson platform can achieve 80% of Xavier's performance in certain parallel optimized computations, surpassing Xavier's performance at the expense of higher power consumption.

Keywords: embedded GPU; loongson platform; high-performance computing; performance evaluation



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1. Introduction

In recent years, with the increasing demand for space exploration, future space science missions will use larger sensors, higher sampling frequencies, and more accurate instruments compared to those in existing space science missions. Tasks such as autonomous exploration of robots and active debris removal require highly autonomous operations, which require more powerful on-board processing capabilities [1–4]. Traditional processors used for space missions cannot meet these high-performance requirements, and the process of redeveloping, producing, and certifying space-grade processors is lengthy, complex, and costly. Existing commercial off-the-shelf (COTS) devices have powerful parallel computing capabilities, and the application of artificial intelligence algorithms in space missions is becoming increasingly widespread. Commercial devices have high floating-point computational performance and excellent neural network accelerators, which can improve the efficiency and accuracy of space mission processing. Therefore, the aerospace field is currently searching for and evaluating processors that can meet high-performance requirements from existing commercial devices to alleviate these challenges. Some government aerospace agencies [5–8] and private enterprises [9,10] have conducted extensive research on performance evaluation of COTS devices. Some of these works focus on radiation studies of certain products, while others focus on balancing the performance of various architecture processors and determining which ones are suitable for space missions.

2. Related Work

Studies in references [11,12] evaluate the performance of COTS devices such as CPU, DSP, GPU, and FPGA based on data provided by suppliers. Using a set of established device metrics, different processor architectures are quantitatively analyzed and compared

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