System-level technical study for the future lunar polar exploration mission

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Abstract

Evaluation of optical navigation algorithms for the lander of future lunar polar mission

Ref. URL: http://www.exploration.jaxa.jp/e/index.html

Reasons and benefits of using JAXA Supercomputer System

It can be used by contructors and has rich computing resources

Achievements of the Year

The output cannot be made public

Publications

N/A

Usage of JSS2

• Computational Information

Process Parallelization Methods	N/A
Thread Parallelization Methods	OpenMP
Number of Processes	1
Elapsed Time per Case	5 Hour(s)

• Resources Used

Fraction of Usage in Total Resources^{*1}(%): 0.01

Details

Computational Resources				
System Name	Amount of Core Time (core x hours)	Fraction of Usage*2(%)		
SORA-MA	0.00	0.00		
SORA-PP	1,420.23	0.01		
SORA-LM	3,669.32	1.53		
SORA-TPP	0.00	0.00		

File System Resources				
File System Name	Storage Assigned (GiB)	Fraction of Usage*2(%)		
/home	93.91	0.08		
/data	1,328.24	0.02		
/ltmp	6,449.26	0.55		

Archiver Resources		
Archiver Name	Storage Used (TiB)	Fraction of Usage*2(%)
J-SPACE	0.00	0.00

*1: Fraction of Usage in Total Resources: Weighted average of three resource types (Computing, File System, and Archiver).

*2: Fraction of Usage : Percentage of usage relative to each resource used in one year.