CFD analysis of dynamic face seal leakage

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Abstract

CFD analysis of dynamic face seal leakage was conducted.

Reasons and benefits of using JAXA Supercomputer System

In this reseach, the supercomputer system is not utilized.

Achievements of the Year

(In this reseach, the supercomputer system is not utilized.)

Comparing to experimental data, the mechanisms of dynamic effect in the seal have been clarified under cryogenic environments.

Publications

N/A

Usage of JSS

• Computational Information

Process Parallelization Methods	N/A
Thread Parallelization Methods	N/A
Number of Processes	1
Elapsed Time per Case	12 Hour(s)

JSS3 Resources Used

Fraction of Usage in Total Resources*1(%): 0.03

Details

Computational Resources		
System Name	CPU Resources Used (core x hours)	Fraction of Usage*2(%)
TOKI-SORA	0.00	0.00
TOKI-ST	0.00	0.00
TOKI-GP	0.00	0.00
TOKI-XM	0.00	0.00
TOKI-LM	0.00	0.00
TOKI-TST	0.00	0.00
TOKI-TGP	0.00	0.00
TOKI-TLM	0.00	0.00

File System Resources		
File System Name	Storage Assigned (GiB)	Fraction of Usage*2 (%)
/home	0.00	0.00
/data and /data2	0.00	0.00
/ssd	0.00	0.00

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.

• ISV Software Licenses Used

ISV Software Licenses Resources		
	ISV Software Licenses Used (Hours)	Fraction of Usage*2 (%)
ISV Software Licenses (Total)	5,074.41	2.29

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