# Active Fluid Flow Control using DBD Plasma Actuators

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### Abstract

Improvement of aerodynamic characteristics using DBD plasma actuators.

# Reasons for using JSS2

It takes a lot of time to calcurate.

# Achievements of the Year

Unsteady fluid flow analysis around cylinder was conducted using FaSTAR.

#### Publications

N/A

### Usage of JSS2

### • Computational Information

Process Parallelization Methods	MPI
Thread Parallelization Methods	N/A
Number of Processes	144
Elapsed Time per Case	100 Hour (s)

## Resources Used

Fraction of Usage in Total Resources<sup>\*1</sup> (%): 0.09

# Details

Computational Resources				
System Name	Amount of Core Time (core x hours)	Fraction of Usage <sup>*2</sup> (%)		
SORA-MA	795,012.89	0.10		
SORA-PP	258.27	0.00		
SORA-LM	1,408.64	0.66		
SORA-TPP	0.00	0.00		

File System Resources				
File System Name	Storage Assigned (GiB)	Fraction of Usage*2 (%)		
/home	35.76	0.04		
/data	596.05	0.01		
/ltmp	244.14	0.02		

Archiver Resources		
Archiver Name	Storage Used (TiB)	Fraction of Usage*2 (%)
J-SPACE	0.07	0.00

<sup>\*1</sup>: 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.