



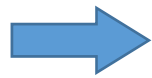
A switching mechanism of visualization middleware and application using Docker

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TDW (Tiled Display Wall)

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- ◇ TDW provides a large scale virtual screen by using multiple display monitors.



- High resolution and scalable visualization environment
- Collaborative and sharable research environment

- ◇ TDW' s problem: **A configuration for shared use is difficult**
 - Visualization middleware and applications need a long and complicated configuration.
 - There is **conflict of library versions** between visualization middleware and applications.

Conflict in libraries version

SAGE2 (2.0.0)	Node.js (6.9), FFmpeg (3.0)
ParaView (5.1.2)	FFmpeg (2.3), Python (2.7)
COVISE (2016.12)	VTK (6.0), Python (3.5)



Proposed mechanism

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- ◇ To avoid library conflicts, we propose a **switching mechanism of visualization middleware and application using Docker**.

- ◇ Overview

