

# Coordination of a grid scheduler and optical network services

A new grid scheduling system was demonstrated at iGrid2005 held in San Diego, U.S.A. The system consists of a grid resource scheduler, computing and network resource management systems, computers at 6 sites in Japan and a network test-bed with the GMPLS protocol. Through a web services interface, the scheduling system in San Diego was able to reserve the resources in Japan and molecular dynamics calculations were performed successfully.

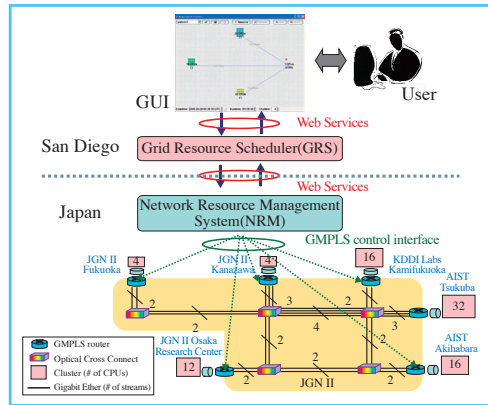


Figure 1: Overview of the experimental demonstration at iGrid2005.

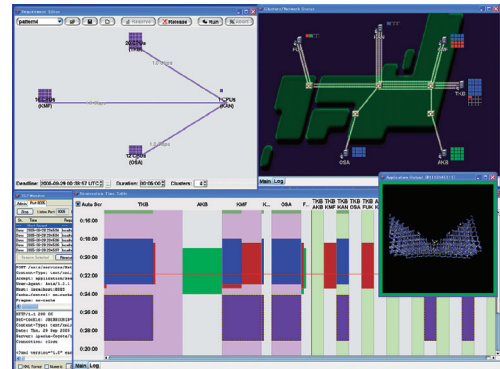


Figure 2: The GUI windows shown at iGrid2005. The request editor, the reservation timetable (left: cluster status, right: network status), the map view, and the application panel.

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# Development of a robot system for handling of medical ampoules

We have developed a robot system which can handle medical ampoules. A new three dimensional object recognition system, which can measure even objects with glossy surface, was adopted in the handling system. The system can sort randomly laid glossy ampoules. We hope this system will reduce medical mistakes due to human error, and improve work environment of pharmacists.

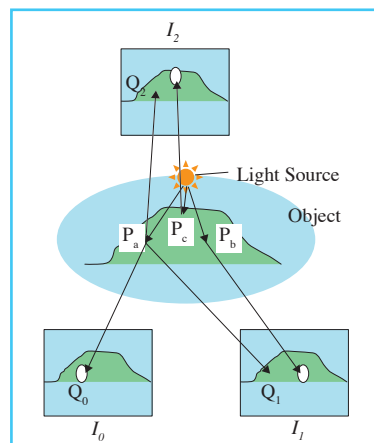


Figure 1: Basic principle for measuring glossy surface

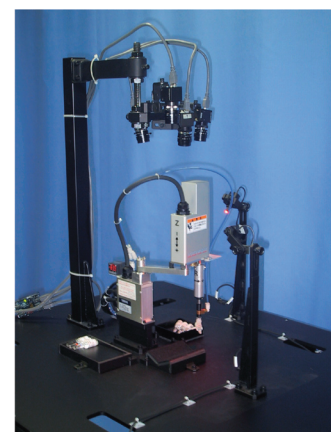


Figure 2: The robot system

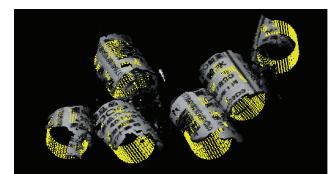


Figure 3: A result of recognized medical ampoules

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