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Implementation and performance estimation of new archive system for the TLS control system

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The TLS (Taiwan Light Source) is a third generation of synchrotron light source which has been operated for more than 25 years, and its control system is a proprietary designed system. Due to component outage issues, the maintenance of the TLS control system is challenging. Some parts of the control system are being rejuvenated with the help of the EPICS framework used in the TPS (Taiwan Photon Source) control system to ensure that TLS continues to operate normally, saving both manpower and money. A new EPICS archive system was needed to efficiently record various machine parameters and status information during routine operation. As a result, the EPICS Archiver Appliance has been evaluated as suitable for deploying to archive TLS machine data which encapsulated the PV channel access. Specific graphical user interfaces and its API package have been supported for quickly retrieving archived data, as well as a plotting function for easy diagnosis. Furthermore, the performance of this new TLS archive system has been estimated, and related system resources will be manually adjusted for better service. The efforts will be summarized at this paper.

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Footnotes

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Yes

Primary author: LIAO, Jin-Kun (National Synchrotron Radiation Research Center)

Co-authors: CHEN, Jenny (National Synchrotron Radiation Research Center); CHENG, Yung-Sen (National Synchrotron Radiation Research Center); HU, Kuo Hwa (National Synchrotron Radiation Research Center); HSU, Kuo-Tung (National Synchrotron Radiation Research Center); LIN-PIN, HSU (National Synchrotron Radiation Research Center)

Presenter: LIAO, Jin-Kun (National Synchrotron Radiation Research Center)

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