



OGC



Sandia
National
Laboratories



LDMS USER GROUP MEETING

March 24, 2025

Agenda

- LDMSCON2025 News
 - Registration opens!
- Selected new features in v4.5.1
- Slurm Job ID tracking Discrepancy – Ben S.
- Q&A

LDMSCON2025 News

- **Date:** June 24 - 26, 2025
- **Venue:** David Rubenstein Forum, University of Chicago
- **Website:**
<https://sites.google.com/view/ldmscon2025/home>
-  **Registration has opened!** 
 - <https://ldmscon2025.eventbrite.com>
- **Accepting abstracts for presentations**
 - Submit via EasyChair:
<https://easychair.org/conferences?conf=ldmscon2025>
 - Deadline: May 23, 2025



LDMSCON2025 - Registration on EventBrite

Early-bird: **SAVE NOW!** – Early bird rates end April 15, 11:59 CDT

	Early Bird	Regular	Late
Students**	\$500	\$500	\$1,375
Members*	\$925	\$975	\$1,375
Non-Members	\$1,125	\$1,175	\$1,375
Remote	\$600	\$600	\$600

CANCELLATION POLICY:

Cancellations on or before April 15: 50% refund minus \$70 cancellation fee

Cancellations on or after April 16: No refunds

LDMS V4.5.1 – Selected New Features

- **LDMS Rails**
 - Bundle LDMS transports together to reduce bottleneck and increase bandwidth and distribute set and stream message load among the bundled transports in the upper level aggregators
 - Per-rail data flow restriction (outstanding buffer bytes, or data rate, or both) in LDMS Rails to prevent unbounded buffer growth
- **Multiple Configuration Plugins**
 - Introduce new plugin interfaces to support multiple configuration plugins
- **Logging infrastructure improvement**
 - Enable users to control the log verbosity per subsystem, e.g., per plugin, update routine, storage routine
- **IPv6 support in LDMS transport**
- **LDMS message (`ldms_msg`)**

LDMS V4.5.1 – Additional Improvements

- LDMS Daemon Performance Monitoring
 - **ldmsd** statistics providing insights to daemon performance
 - Thread statistics in various levels (Zap, LDMS transport, **ldmsd** workers)
- Resource management
 - Exclusive thread feature for samplers that take longer to execute

LDMS V4.5.1 – Planned New Features

- In development
 - Event-based Storage: Draft PR1632
 - Readthedoc change: PR 1599
- Last day to submit PRs for new features – March 31 – next Monday

Slurm Job ID tracking Discrepancy - Ben S. (cont)

Issue:

- LDMS captures JobIDRAW value (e.g., 200)
- Users see JobID (e.g., 100_*) in squeue and output files
- Users can't find jobs in LDMS database using familiar job IDs

Objective

- Ben would like to discuss how other sites handle this discrepancy and explore possible solutions with the community.

Slurm Job ID tracking Discrepancy - Ben S. (cont.)

Example:

E.g.: 200 is the JobIDRAW and what is in our LDMS job_id field, 100_* is what is shown to the user in squeue and their appended slurm output (I believe, need double check on this).

```
$ sacct -j 200
```

JobID	JobName	Partition	Account	AllocCPUS	State	ExitCode
100_1	python_we+	batch	#####	36	FAILED	1:0
100_2	batch		#####	36	FAILED	1:0
100_3	python3		#####	1	FAILED	1:0

Q&A



Thank you!