LDMS USER GROUP MEETING

APRIL 10, 2023

AGENDA

- OVIS 4.3.11 Released
- OVIS 4.4.1 Schedule
- Development Funding Opportunities
- Q & A

OVIS 4.3.11 RELEASED

- Combined remote configuration into a single Python3 module called ldmsd_communicator
- Disabled support for multiple lists in store_sos & store_csv when decomposition is not used
- Added linux_proc_sampler streams store for SOS
- Fixed wildcard address handling in ldms_xprt_listen_by_name()
- Added a global message logging library (ovis_log) to incrementally replace message log pointers
- Moved all sampler plugins to their own sub-directory
- Deprecated asynchronous sampling mode
- Added missing ldms_list_tail API
- Added LDMS_V_TIMESTAMP accessor functions
- Added support for the Slurm2 sampler in sampler_base
- Made metric types signed in the lustre_mdc sampler
- Added an Avro-Kafka Store to republish metric set data as Avro encoded Kafka messages
- Added ovis_log messages to the LDMS authentication plugins
- Added user_debug option to control job logging when debugging the slurm_notifier

OVIS 4.4.1 SCHEDULE

- Accepting new features as of today, currently
  - RAILS & Streams over RAILS
    - Flow control, rate limiting, bandwidth scaling
  - Deprecate ldms_notify() API
  - Utilization of ovis_log API in libldms, libzap, and ldmsd
  - Dynamic set ownership and access control
  - Generic Stream and JSON stores supporting decomposition
  - Bug fixes and software maintainability improvements
  - ???
- System test start May 15, 2023

DEVELOPMENT FUNDING OPPORTUNITIES

- Decomposition usability improvements
  - regex matching for mapping metric sets to decomposition configuration
  - Variable length arrays
  - Destination configuration inheritance from source
    - type, destination name, array-length, etc…
  - Simplified fill syntax
  - Improved JSON syntax error handling and reporting
  - The "src" name syntax will be expanded such that metric_name[record_element] will be parsed to get the containing aggregate (e.g. list or array) and the record_element is the name of the element within the record.
- ldms_ls reports record schema meta-data with -v
- GPFS Client Sampler

Q & A

- add u64 component-id generation to Maestro
  - Have different entities configured with component-id bases
- change component-id to a string and use some kind of dotted notation
  - Some are using producer-name to do this since it is already a string
  - need to add producer-name-like field in a record for lists
- Additional testing for ovis_log consumers to ensure compatability
  - darshan, kokkos, caliper, hm