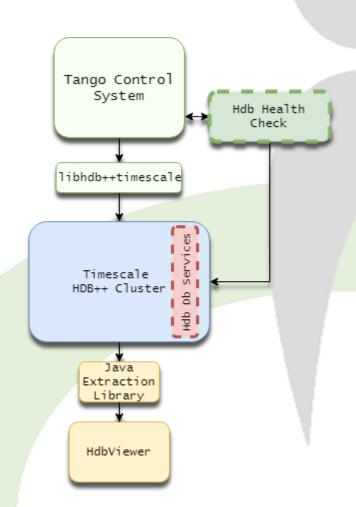


ESRF Operation Status

EUROPEAN SYNCHROTRON RADIATION FACILITY

Installation Status

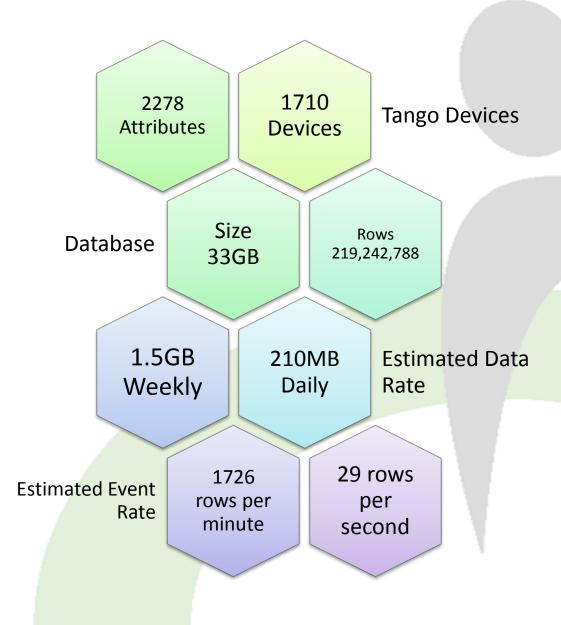
- New Timescale archival system came online in July.
- Currently archiving vacuum data from the new accelerator.
- Completed Components:
 - libhdb++timescale shared library
 - Java Extraction Library support
 - Timescale database server cluster
- Components Under Development:
 - Hdb Health Check (requirements planning)
 - Hdb Db Services (75% release 1)
- Completion of missing components will end first phase of development



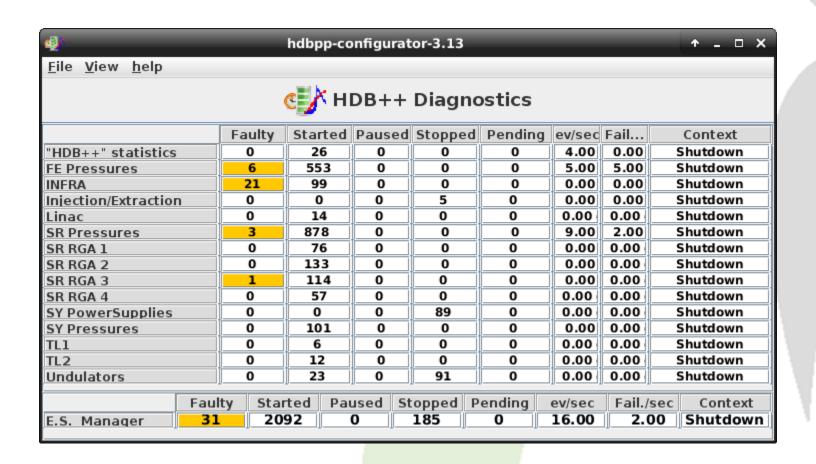
System Statistics

- All figures are estimates based on data from the live system.
 - System is currently shutdown and under construction.
- System usage is still low, plenty of room to grow before we find limits and are forced to scale/optimise.
- Over 60% of the database size is indexes (inline with research).
 - Due to composite index used to speed up queries.
- 99.9% data is scalar DevDouble.

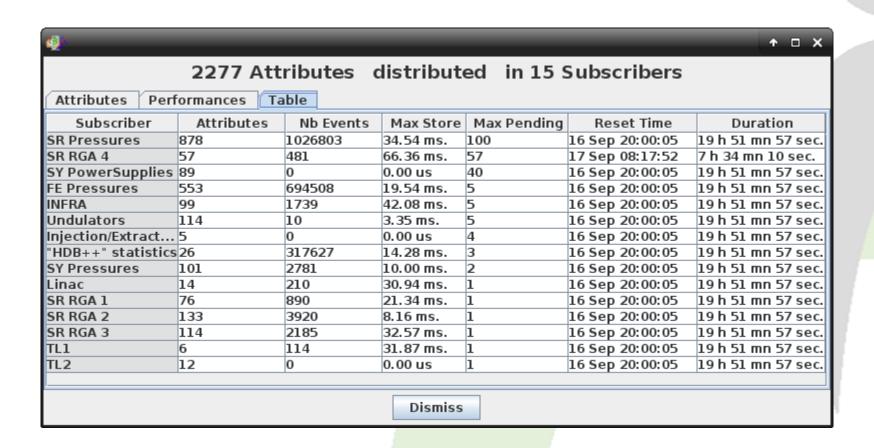
table_name	row_estimate
	+
att_array_devstate	1581
att_array_devstring	59
att_parameter	20611
att_scalar_devboolean	3
att_scalar_devdouble	212488736
att_scalar_devlong	112
att_scalar_devstring	1501



System Statistics Cont...



System Statistics Cont...



System Issues

- Some key outstanding issues being worked on:
 - String storage: string data requires escaping to store, but PostgreSQL does not offer easy escaping on extraction.
 - Missing types: DevEnum and DevEncoded.
 - Extraction problems with some unsigned types.
 - Multiple EventSubscribers running in a single Device Server not supported yet.



Thank you!

Any questions?