Metadata Working Group Report

Update of Ensemble XML
Simplification of Config. XML (still under discussion)



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Update of Ensemble XML

- Twisted mass quark actions with clover term
 - request from ETMC
 - twisted mass actions were marked up in a previous version
 - realize them as extensions to twisted mass actions
 - simply add a coupling "cSW"
 - released as QCDmlEnsemble1.4.8 on June 8th, 2013

diagrams



Simplification of Config. XML

- Human costs for markup
 - Many collaborations feel that marking up their ensembles and configurations is time consuming
 - started discussions to simplify QCDml (on going)
- Ensemble and/or Configuration
 - cost for marking up ensemble is not high
 - copy an existing sample and edit it
 - has to be done only once for each ensemble
 - marking up configurations requires high human costs
 - method to gather metadata depends on collaborations
 - origin of high costs is that metadata comes from various sources

- Origin of config. metadata (JLDG case)
 - configuration itself for check-sum and plaquette value
 - log file for generation date (in archiveHistory)
 - supplemental file for machine/code information (in implementation)
 - prepare a shell-script to gather metadata and generate a config XML (and convert and pack the configuration)
 - the shell script is different from project to project, thus has to be written and tested for each physics project
- Note
 - Metadata Capture project by Edinburgh-Tsukuba collab.
 - feel not simple enough
- Possible solution
 - make metadata from configuration (and tags for configuration) mandatory
 - make metadata from other sources optional

Minimal Config. XML sample



- with this simplification
 - it will be much easier to develop tools for ILDG
 - and possibly to incorporate tools to production code
- How to realize this idea (discussion within WG)
 - modify schemata
 - keep schemata unchanged, but allow dummy values (see report from Middleware working group)

To do soon

- joint discussion with MWWG on configuration XML
- DOI tag in ensemble XML