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Conditions data handling in the multithreaded ATLAS framework

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In preparation for Run 3 of the LHC, the ATLAS experiment is migrating
its offline software to use a multithreaded framework, which will allow
multiple events to be processed simultaneously. This implies that the
handling of non-event, time-dependent (conditions) data,
such as calibrations and geometry, must also be extended to allow
for multiple versions of such data to exist simultaneously. This has
now been implemented as part of the new ATLAS framework. The detector
geometry is included in this scheme by having sets of time-dependent
displacements on top of a static base geometry.

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