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scipp: Reduction of large event data

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scipp is a software stack developed at ESS with in-kind contributions from ISIS for the reduction of neutron scattering data. It consists of multiple Python libraries:

- *scipp*: General purpose multi-dimensional arrays with labelled dimensions, physical units, and support for non-destructive binning of event data.
- *scippnexus*: Low-level utilities for reading and writing NeXus files.
- *scippneutron*: Cross-facility routines for neutron data reduction.
- *ess*: Functionality bespoke to ESS.

scipp's lean and flexible data structures allow it to scale to larger data than other software. In addition, its high-level design prevents many common mistakes and makes scipp accessible to people with little programming experience.

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