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Using compress records in the real world

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The compress record is a simple but powerful tool for data processing in an EPICS system. This records can provide in the IOC post-processing of data that would otherwise require high level tools. Although having been a part of EPICS for a long, long time, this is perhaps not as widely understood or used as it might be. Having this post-processing done at the IOC rather than application level, allows the use of standard EPICS features such as Alarms, Archiving, trend-Plots, save-restore, etc. A real-world example of how this records can be used to measure integrated radiation dose over a number of time ranges will be shown.

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