Float64 Motor Record

In the Australian Synchrotron, we have standardised our motion controls based on Omron's PowerBrickLV(r), an advanced and versatile controller platform.

In order to utilise the advanced features of these controllers while maintaining the complexity that comes with the versatile and multi-purposed controller, DLS developers team led the community by setting up a software stack with modules in the controller firmware up to the motor record.

In the Controls Systems team, we took on the task of advancing the DLS software stack and Motor Record to meet our new requirements for PPMAC namely: supporting fractional readbacks in engineering units from controller, improved performance of the driver, additional protection functions at the controller level and streamlined routines e.g. homing routines, without backward compatibility requirements.

Now we are testing our beta version of the software stack, with an improved Motor Record, driver and IOC templates.

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