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The Technologies That Drive the MX Beamlines.

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The MX1 and MX2 beamlines at the Australian Synchrotron are sophisticated machines for the collection of single crystal X-ray diffraction data. The two stations serve a diverse community of researchers in the structural sciences, from mineralogy to virology.
Here we look 'under the hood' at the technologies that bind the individual beamline components together into a highly automated data collection system.
In the last few years a full re-write of several key software components has delivered new code and capabilities for beam attenuation, data collection and energy change and also beamline setup, diffraction rastering and autoprocessing resulting in a more reliable and easier beamline to support.
We are now starting to work on the software that runs our robots to apply a similar improvement.
These upgrades together with the hardware changes will keep both beamlines useful for the most complex biological and chemical questions our researchers need to address

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