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An EPICS solution for EPSON robots

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An EPICS solution for EPSON 4-6 axis robots, that can be used to integrate user defined applications, has been written. The solution consists of a robot network server, an EPICS database that uses streamDevice, and a set of screens. The network server is designed to accomplish multiple tasks simultaneously, and therefore provides significant enhancements over EPSON network servers. Additionally EPSON force sensing has been replaced with higher performing software. The macromolecular, micromolecular, and powder diffraction beamlines at the Australian Synchrotron use robotic sample mounters that have been built on top of the presented EPICS solution.

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