Crystal Plan at ISIS

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Beam time available at a large x-ray or neutron scattering facility is always a limiting factor in planning an experiment. *CrystalPlan*1 was developed at the SNS to help users optimize their allocated time. The program can visualize the reciprocal space covered by a TOF single crystal diffractometer for a given sample and help the user build an experimental plan maximizing coverage while minimizing redundancy.

*CrystalPlan* previously only supported instruments at the SNS. Additionally, the software was not packaged for platforms outside of Linux and used several outdated library dependencies. We will present the work carried out to add support for instruments at ISIS. New instrument definitions and goniometers have been added for the WISH & SXD instruments. Library dependencies have also been updated to more recent versions. Finally, we’ll present the methods we used to port to, and package for, multiple OS’s and move to support Windows, OSX, and Linux.

### References

[1] Zikovsky, J., Peterson, P. F., Wang, X. P., Frost, M. & Hoffmann, C. (2011). J. Appl. Cryst. 44, 418-423.