Project Name: Chart

Name of pipeline: Chart

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Current Status: Not Yet Released for 5.0.2

Purpose

From scaled and truncated data use programs of the CCP4 Suite and SHELXD to provide an interpretable map and then use ARP/wARP to build into it if requested.

High Level Description

Create command files and run them. Analyse the log files and prepare further command files. Chart was started several years ago now and was based around MLPHARE and SHELXS. mlphare is still seems to do a reasonably good job but SHELXS has been superseeded by SHELXD. When available, PHASER will be integrated into the system.

Jiffies

awk-based mlphare-log analyser

Decision Making

Resolution ranges for shelx/rantan, sensible shelx solutions, repeated potential heavy atom solution sets, best solution set from mlphare, bad atoms in mlphare (are extra sites real?), hand checking by DM output analysis.

Data Standards and Management

Derivative info is held internally. Com and log files are written to disk. Deposition harvesting remains a dream.

Languages

scsh (scheme (lisp)). It is Free.

External dependencies

CCP4 and SHELXD

Context/Audience/Environment

The pipeline primarily intended to be run at the beamline by novice users.

Links to Supporting Documents

http://www.chem.gla.ac.uk/~paule/chart