- Expt set-up

user [name]	stores the name of user in each file
sample [sample name]	stores the name of the sample in each file
title [scan title]	gives the scan the title
mode [*bi* or *tas*]	*bi* for cradles *tas* for gonios
scan mode [*timer* or *monitor*]	determines the scan counting mode

- Motors and Angles

som or *a3*	returns the value of the sample table
stt or *a4*	returns the position of the detector
phi or *sgu*	returns the value of the upper gonio
chi or *sgl*	returns the value of the lower gonio
four	returns all four current angle positions

- Driving and Counting

dr [motor] [value]	drives to postion [value]
dr [motor1] [value1] [motor n] [value n]	drives all n motors
stop	stops all motors and scans
co [*mn* or *ti*] [counts or seconds]	count for 'counts' of monitor counts or 'seconds' of time
dr opa [value]	drive sgu and sgl to give out of plane angle='value' ($<15°$)
	It is assumed that the instrument is aligned such that:
	som 0: the upper gonio is parallel to the beam
	stt 0: the detector is in the direct beam.

- Batch files

batchpath	returns the current path
projectdir [pathName]	changes the path to 'pathName'
batchrun [fileName]	runs the file, found in the path with the name 'fileName'

- Scans

  Center scan
  cscan [motor] [pos] [step size] [# of steps each side of pos] [count time]

  Step scan:
  sscan [motor] [start pos] [end pos] [# of steps + 1] [count time]

  sscan [motor1] [start pos1] [end pos1] [motor2] [start pos2] [end pos2] [# of steps + 1] [count time]

  Cone scan:
  [scan type] *oma* [start pos] [end pos] [# of steps + 1] [count time]

- Centering

peak	Finds the center of your last scan
center	Moves to the center of your last scan
centerref [count time]	Centers the reflection in all of the angles

- Crystal calculations

cell ([a b c α β γ])	prints or (updates) the cell parameters
spgrp ([A a a a])	prints or (updates) the space group
calctth [h k l]	calculate two theta for the given 'h k l'
calcang [h k l]	calculate all angles for the given 'h k l'
calchkl ([stt som sgu sgl])	calculate h k l for the current or (given) angles
ub ([x_{11} x_{12} x_{13} x_{21} x_{22} x_{23} x_{31} x_{32} x_{33}])	prints or (updates) the ub matrix
recoub	recovers previous ub matrix
calcub [xxxx] [xxxx] ([xxxx])	calculates a ub matrix using the reflections 'xxxx' from the reflection list, see *reflist* 2 or (3) reflections can be used

- Reference reflections

reflist	prints the current list of reflections
refclear	clears the list of reflections
refdel [xxxx]	delete the reflection with the ID 'xxxx' from list
refhkl [xxxx] [h k l]	change the hkl values of reflection 'xxxx' to 'h k l'
refadd idx [h k l]	add a reflection to the list with index 'h k l'
refadd ang ([stt som chi phi])	adds the current or (given) motor positions
refadd idxang [h k l] ([stt som sgu sgl])	adds the current or (given) motor positions for reflection with index 'h k l'
refang [xxxx] ([stt om chi phi])	adds the current or (given) motor positions at position 'xxxx'
refsave [fileName]	saves the reflection list to 'fileName'
refload [fileName]	loads a stored reflection list from 'fileName'
refindex	index the current reflection list with the current ub matrix where indices are rounded to the next integer

- Instrument set-up

  list [motor]   gives all info and commands associated with a motor

- To restart six

  At the command line:
  $>>$ *killsics*
  $>>$ *startsics*
  $>>$ *exit*
    Log back in...