File paths on CHESS DAQ:

Raw data for a BTR is in: /nfs/chess/raw/[run cycle ID]/id3a/[BTR ID]

Auxiliary files (metadata, etc) is in: /nfs/chess/aux/cycles/[run cycle ID]/id3a/[BTR ID]

Some spec basics:

spec.log for a given sample is saved in /nfs/chess/raw/[run cycle ID]/id3a/[userid-file ID]/[sample ID]

ascan [motor] [start] [stop] [#steps] [count time] is an absolute position scan of [motor]

dscan [motor] [relative start] [relative stop] [#steps] [count time] is a relative position scan of [motor]

d2scan does a dscan of 2 motors simultaneously

lup [motor] ... is identical to dscan

umv [motor] [position] is an absolute move of [motor] to [position]

umvr [motor] [relative position] is a relative move

tw [motor] [step size] gives you a prompt to move [motor] by relative +/- [step size]. Within the prompt hit enter to do the move, type + or – to change directions, type a new step size to change step sizes; type anything else to exit tweak mode

wm [motor] reports [motor]'s current position, and also displays [motor]'s limits

we prints all motor positions

ct [count time] counts for [count time] and displays the resulting ion chamber counts

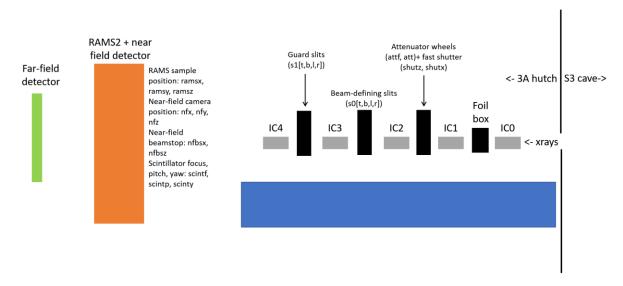
To change variable plotted on the y-axis in yellow spec graph: plotselect [counter], then splot

prdef [macro name] displays the definition of the macro, including the filename where it's located

qdo [macro name] recompiles a macro file

newsample prompts you to define a new sample name

FAST layout at a glance (not to scale):



Checking and setting the beam width and height:

- get beam width returns the width of the beam-defining slits (s0l, s0r) in mm
- get beam height returns the height of the beam-defining slits (s0t, s0b) in mm
- set beam width sets the width of the beam-defining slits
- set beam height sets the height of the beam-defining slits
- similar macros get_guard_width, etc exist to check or set the guard slits (s1t,b,l,r)

Absorption foil utilities:

- insert_foil [1,2,3,4] inserts Sn (29.200 keV), Pr (41.991 keV), Tb (51.996 keV), Yb
 (61.332 keV)
- remove foils removes all foils
- where foils tells you what foil is currently in as well as the monochromator energy

Attenuation:

- atten [thickness] inserts [thickness] mm of steel; range is 0-20 mm in 0.25 mm steps
- watt returns the current attenuator thickness

RAMS2 loading:

- mvr_screw [displacement] [block] [velocity] [acceleration] moves the screw head by [displacement] mm, at corresponding [velocity] and [acceleration]. Almost always set [block] = 1 to have mvr_screw block the spec terminal until motion is complete. [displacement] > 0 for tension, < 0 for compression. [velocity] and [acceleration] should be given as absolute values.