

autoPROC reference card	
set up (if not already done for you automatically)	
Set up for csh or tcsh	<code>source /some/where/autoPROC/installed/setup.csh</code>
Set up for bash, ksh, zsh, or sh	<code>. /some/where/autoPROC/installed/setup.sh</code>
autoPROC: most useful options	
Brief help message	<code>process -h</code>
Simple run (in directory containing images)	<code>process -d outputdir > log</code> - or - <code>process -d outputdir tee log</code>
Simple run (remote directory)	<code>process -d outputdir -I imagedir > log</code>
Read image header information	<code>imginfo test_0123.img</code>
Check beam centre conventions	<code>beam8.sh <beamX> <beamY> <sizeX> <sizeY></code>
Define direct beam transform	<code>process BeamCentreFrom="header:y,-x" -d outputdir > log</code>
Let autoPROC determine most likely direct beam transform	<code>process BeamCentreFrom="getbeam:init" -d outputdir > log</code> (might not always work for Pilatus/Eiger images)
Define direct beam position	<code>process beam="1556 1512" -d outputdir > log</code>
Identify image scans	<code>find_images -d imagedir -l</code>
Identify HDF5/Eiger scans	<code>find_images -d imagedir -l -h5</code>
Manual sweep definition	<code>process -Id "test,/where/ever/images,test_###.cbf,1,90" -d outputdir > log</code>
Manual sweep definition for HDF5/Eiger data	<code>process -Id "test,/where/ever,test_master.h5,1,900" -d outputdir > log</code>
Define cell dimensions and symmetry	<code>process cell="a b c al be ga" symm="P2" -d outdir > log</code>
Include "reference" file for symm, cell and test-set	<code>process -ref mtzfile -d outputdir > log</code>
List available "macros"	<code>process -M list</code>
Settings that might help difficult diffraction data	<code>process -M LowResOrTricky -d outputdir > log</code>
Process in "fast" mode	<code>process -M fast -d outputdir > log</code>
Restrict number of "processors"	<code>process -nthreads <no> -d outputdir > log</code>
Restrict resolution range	<code>process -R 50.0 2.0 -d outputdir > log</code>
List known multi-axis goniostats	<code>x_kappa -list</code>
Process multi sweep data collected with different goniostat/2-theta settings	<code>process KapparotSite="siteID" -d outputdir > log</code>
Switch off detection/exclusion of ice-ring resolution ranges	<code>process XdsExcludeIceRingsAutomatically=no -d outputdir > log</code>
Exclude all known ice-ring resolution ranges from the start	<code>process XdsExcludeIceRingsAutomatically=all -d outputdir > log</code>
Use the AIMLESS-only scaling path	<code>process -M ScalingA3 -d outputdir > log</code>
Use the XSCALE-only scaling path	<code>process -M ScalingX -d outputdir > log</code>
Process Dectris/Eiger data (HDF5 format)	<code>process -h5 /where/ever/some_master.h5 -d outdir > log</code>

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Looking at results	
helper programs and options	
Open outputdir/summary.html in browser, e.g.	<code>firefox outputdir/summary.html</code>
Traditional (isotropic) results	<code>truncate-unique.mtz</code> <code>truncate-unique.table1</code> <code>aimless.sca</code> <code>autoPROC.xml</code> <code>report.pdf</code>
Anisotropic (STARANISO) results	<code>staraniso_alldata-unique.mtz</code> <code>staraniso_alldata-unique.table1</code> <code>staraniso_alldata.sca</code> <code>autoPROC_staraniso.xml</code> <code>report_staraniso.pdf</code>
further information	
autoPROC homepage	http://www.globalphasing.com/autoproc/
autoPROC manual	<code>\$autoPROC_home/docs/autoproc/manual/autoPROC0.html</code> - or - http://www.globalphasing.com/autoproc/manual/index.html
autoPROC wiki	http://www.globalphasing.com/autoproc/wiki/
beamline information	http://www.globalphasing.com/autoproc/wiki/index.cgi?BeamlineSettings