

<b>Project Name: Auto-Rickshaw</b>
<b>Name of pipeline: Auto-Rickshaw</b>
<b>Author information: Santosh Panjekar, EMBL Hamburg panjekar@embl-hamburg.de</b>
<b>Current Status: Running on 16 processors cluster and used by EMBL-Hamburg beamline users</b>

<b>Purpose</b>
<i>e.g. What is the scope and purpose of the pipeline?</i> To validate the X-ray diffraction experiment at the beamline and build as complete model as possible.
<b>High Level Description</b>
<i>e.g. A brief description of the pipeline components and architecture</i> The pipeline contains CCP4, SHELXC/D/E, MLPHARE, NANTMRF, BP3, SHARP, DM, RESOLVE, MAPMAN, ESSENS, and ARP/wARP.
<b>Jiffies</b>
<i>e.g. Describe any custom utilities which had to be written for the pipeline, for example a function to convert between different file formats</i> Yes, many
<b>Decision Making</b>
<i>e.g. A description of the types of decision which are made within the pipeline</i> Decisions are made based on the specific crystallographic problem which program to choose and what parameters would be necessary.
<b>Data Standards and Management</b>
<i>e.g. How is data stored and transferred within the pipeline?</i> The data is stored internally as variable and in various formats which are then used by required program within the pipeline.
<b>Languages</b>
<i>e.g. What languages is the pipeline implemented in?</i> The pipeline is written in <i>Cshell</i> and user-interface prepared using <i>java</i> , <i>perl</i> , and <i>html</i>
<b>External dependencies</b>
<i>e.g. Does the pipeline use any external libraries or toolboxes?</i> No
<b>Context/Audience/Environment</b>
<i>e.g. Is the pipeline intended to be run only at the beamline by experts, or on a laptop by a novice user?</i> No, it runs at cluster and accessible from EMBL-Hamburg beamline computers.
<b>Links to Supporting Documents</b>
<i>e.g. Links to project homepages</i> <a href="http://www.embl-hamburg.de/Auto-Rickshaw/">http://www.embl-hamburg.de/Auto-Rickshaw/</a>
<b>References</b>

*e.g. Publications which contain further information*

Panjikar, S., Parthasarathy, V., Lamzin, V. S., Weiss, M. S. & Tucker, P. A. (2005). *Auto-Rickshaw* - An automated crystal structure determination platform as an efficient tool for the validation of an X-ray diffraction experiment. *Acta Cryst. D* (in press).