

# System Structure of the Pipeline Software for ESO Imaging Survey

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ESO Imaging Survey (EIS) team has been conducting sky survey to provide candidate targets to ESO VLT (Very Large Telescopes) observations. The observed data have been processed in sequence of five major corrections and data reduction, i.e. frame processing, photometric correction, astrometric correction, source extraction, and coaddition. And finally the processed data are published and distributed on the Internet. In order to provide automatic processing for the vast volume of observed data, a pipeline software has been built. Because of different characteristics of the processing software and complexity of the data processing, it was needed to construct the structure of the whole works first. I was involved in constructing the structure by identifying every flow of the processes, and then in building software for managing the database which is an essential feature for managing vast amount of data systematically and enabling the data processing conveniently. In this paper, the system structure is presented and discussed.