

**SUPERCOMPUTER 'BURA' AS A SOFTWARE  
PROCESSING CENTRE FOR LSST VERA C.  
RUBIN OBSERVATORY**

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Large long-term surveys such as LSST at Vera C. Rubin Observatory will obtain a huge, petabyte-scale of data. Such vast amount of data would need substantial computer resources in order to be processed, analysed and visualised. Therefore, supercomputers and high-performing computing facilities play an important role as IDAC (International Data Access Centre) and/or SPC (Software Processing Centre) in LSST scientific community. As a part of LSST Vera Rubin Observatory in-kind contribution of Croatian participation group (CPG), we are offering HPC supercomputer 'Bura' at University of Rijeka as a software processing centre. In this talk, the main features of HPC 'Bura' will be presented, as well as possibilities of its use by LSST scientific community, mainly (but not exclusively) in the areas covered by Transients and Variable Stars (TVS) and Stars, Milky Way & Local Volume (SMWLW) scientific collaborations. Various possible scientific cases where 'Bura' could be used, and interesting for wider scientific community, will be described.