

RASFX and DiFX: The Comparison of Geodetic VLBI Processing Results

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GPU-based software correlator RASFX has been developed for geodetic processing of the VLBI observations in the IAA RAS in 2014. It includes HPC cluster and software, and outputs the calculated group delays to the NGS card files.

In this work we present the comparison of group delays from RASFX correlator to the group delays obtained from DiFX correlator output using PIMA software.

We found that the differences of the UT1-UTC measures from both correlators are mainly due to the different realisation of mathematical computations of the post-processing algorithms. The data converter was developed which allowed to use PIMA to post-process the RASFX data instead of native software. A series of intensive sessions were processed using this new routine.