

The Research on Carrier Phase Time Transfer of BeiDou Geo Navigation Satellite

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Abstract: GPS/GLONASS Common view , All in view and PPP Time Transfer technology are widely used in the remote time comparison. With the benefit of the high precise measurement on carrier phase, the PPP time transfer technology which based on the carrier phase data is suggested in the International time comparison. In this Paper, The Carrier Phase Time Transfer on GEO Navigation satellite is implemented. The technology is referenced with GPS carrier phase time transfer principle and combined with 3 frequency observation from the GEO Navigation Satellite. The result is tested by the measurement data at last, and the performance of this time transfer technology is analyzed on the respect of precise, frequency accuracy and stability. The results show that the time transfer precise is better than 2ns by this method.