The aim of this research is to adjust the GPS network by least
squares. The input data of this GPS network adjustment is the baseline
vector component which comes from GPS baseline reduction software such as
PoPS and TRIMVEC software. The ability of PoPS and TRIMVEC is to compute
baseline vector components in each session not more than 10 stations.
Hence, the baseline vector components from each session must be readjusted
together as a network. However, the different baseline reduction software
gives the different format of baseline vector components. Thus, they can
not be adjusted together.

This research aims to transform the different format of baseline
vector components to be a standard format. Then they can be computed
together. Since the GPS network adjustment commercial software omits to
take the baseline correlation in the network adjustment. Hench, the effect
of the baseline correlation will be the aim of this research as well. From
studying the results of the GPS network adjustment with and without baseline
correlation is not significantly different from each other at 5% level.