

RunAutoCorr Documentation

The RunAutoCorr program will produce the autocorrelation of the input trace. Since the auto-correlation is symmetric around 0, we only produce the left hand side of the auto-coorelation.

<h2>Synopsis</h2>

RunAutoCorr [inputDataFileName](#)

Given the input data file, we make the auto-correlation of the file according to the formuala:

$$\phi_{x,y}(\tau) = \sum_k x(k)y(k+\tau).$$

As you can see,

$$\phi_{x,y}(-\tau) = \phi_{x,y}(\tau).$$

Thus, we need only provide $\phi_{x,y}(\tau)$ for $\tau > 0$.

We **Return** the autocorrelation array on standard out for $\tau > 0$.

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