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- Tp,m is read from node p's clock
- Two nodes p and q can exchange delivery times to estimate mutual relative offset
- Then calculate relative average offset for the network:

 $Offset[p,q] = \frac{\sum_{k=1}^{M} (T_{p,k} - T_{q,k})}{M}$

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L14.41

 Where M is the total number of reference messages sent
Nodes can simply store offsets instead of frequently synchronizing clocks to save energy REFERENCE BROADCAST SYNCHRONIZATION (RBS) - 2

- Cloud skew: over time clocks drift apart
- Averages become less precise

March 6, 2019

- Elson et al. propose using standard linear regression to predict offsets, rather than calculating them
- IDEA: Use node's history of message times in a simple linear regression to continuously refine a formula with coefficients to predict time offsets:

 $Offset[p,q](t) = \alpha t + \beta$

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L14.42

























L14.56





















L14.66















