

Errata

Jens S. Frederiksen, Kim S. Larsen, John Noga, and Patchrawat Uthaisombut.
Dynamic TCP Acknowledgment in the LogP Model. *Journal of Algorithms*,
48(2):407-428, 2003.

- Page 417, line -5:

$$\frac{E[RA_{\Delta}(\sigma)]}{OPT(\sigma)} \leq \frac{-a_m^2 + 4a_m - 3 + 2a_m\Delta + \Delta^2 + 2\Delta}{2\Delta(a_m + 1)}$$

- Page 417, line -2:

$$c(a_m, k) \leq \begin{cases} a_m + k + 1 & , \text{ if } a_m < k + 1 \\ a_m + 2 & , \text{ if } k + 1 \leq a_m \end{cases}$$

- Page 418, line 1-2:

$$\begin{aligned} E[RA_{\Delta}(\sigma)] &\leq \frac{1}{\Delta} \int_0^{\Delta} c(a_m, k) dk \\ &= \frac{1}{\Delta} \left(\int_0^{a_m-1} (a_m + 2) dk + \int_{a_m-1}^{\Delta} (a_m + k + 1) dk \right) \\ &= \frac{-a_m^2 + 4a_m - 3 + 2a_m\Delta + \Delta^2 + 2\Delta}{2\Delta} \end{aligned}$$

- Page 418, line 14-15:

$$\max \left\{ \frac{\Delta + 3}{\Delta + 2}, \frac{-a_m^2 + 4a_m - 3 + 2a_m\Delta + \Delta^2 + 2\Delta}{2\Delta(a_m + 1)} \right\} \leq \max \left\{ 1 + \frac{\Delta}{2}, \frac{1}{2} + \frac{3}{2(\Delta + 1)} \right\}$$

- Page 422, line 6:

$$\mathcal{R}(RB_1) \leq \frac{\sqrt{5} + 1}{2} \approx 1.618.$$

- Page 422, line 9:

$$\overline{\mathcal{R}}(RB_2) \leq \frac{3}{2}.$$

- Page 422, line -8: RB_0 should be RB_1 .