

Rectification for the COMSWARE2008 paper

The published version of COMSWARE2008 paper contains an important erratum. The scaling factor f in the bandwidth distribution formula for the *weight* stream hierarchy node should include the current weight value of the child, w_i , as follows:

$$f = \frac{BW}{\sum_i (w_i * MaxBW_i)}$$

More verbosely, the complete bandwidth distribution formula for the *weight* node becomes

$$BW_i = w_i * MaxBW_i * \frac{BW}{\sum_i (w_i * MaxBW_i)}$$

In other words, the total amount of bandwidth available to the *weight* node (denoted by BW in the formula) should be scaled with regard to the combined **weighted** maximal bandwidth usage of all of its children instead of only considering the children's maximal bandwidth usage. By using the combined weighted maximal bandwidth usage, the scaling factor enforces that, after executing the initial phase of *weight*'s operation, the collective amount of bandwidth assigned to all children does not exceed the total amount of bandwidth available to the *weight* node (i.e. $\sum_i BW_i \leq BW$).