

Assignment 2. Due 21.11.2012

Given an arithmetic expression that corresponds to a complete binary tree of depth 3 (i.e. with 8 leaves). The expression contains constants from some algebraic structure G and an operation \oplus which is not necessarily associative (so we cannot change the shape of the tree). We assume that computing \oplus takes unit time.

Your tasks:

- design an efficient method to compute this on 3 processors
- show that it is time optimal (assume that all operations except computing \oplus take negligible time).

Have fun!