

4.4 Maximum Computation

Lemma 4

On a CRCW PRAM the maximum of n numbers can be computed in time $\mathcal{O}(1)$ with n^2 processors.

proof on board...

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Lemma 5

On a CRCW PRAM the maximum of n numbers can be computed in time $\mathcal{O}(\log \log n)$ with n processors and work $\mathcal{O}(n \log \log n)$.

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Lemma 6

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On a CRCW PRAM the maximum of n numbers can be computed in time $\mathcal{O}(\log \log n)$ with n processors and work $\mathcal{O}(n)$.

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