

Topic: Cost Model

Assigned reading: Sections 1.8 and 8.4.1 from Raghu Ramakrishnan's book

While modeling the memory hierarchy, we assumed that we are going to focus only on fetching data from the secondary storage into the main memory. We are going to study various alternatives for implementing internals of a DBMS. While evaluating each design option, we are going to model the cost associated with it. We are going to compute this cost mainly in terms of number of pages read from and written to the disk. Buffer manager in the DBMS handles this disk input output (I/O). Just like the model for memory hierarchy, our cost model is not perfect. However, it makes the analysis far easier.