Abstract

The final project implement indexing use Blocked Sort Based Indexing (BSBI) method. BSBI is a method that adapt external sort method.

BSBI work using blocks database. BSBI will extract document, sort contents of document in memory block, write back to database, then merge all blocks database as inverted index that sorted by alphabet and docID.

This final project compare time indexing and space of inverted index when process of indexing use BSBI and Simple Indexing. As input sistem, we use document with different total term dan different distinct term.

When do indexing process with BSBI, found that total time of BSBI bigger than total time of Simple Indexing but memory time for BSBI smaller than Simple Indexing memory time. In space for inverted index, BSBI need six times space than Simple Indexing.

Keywords : blocked sort based indexing, simple indexing, external sort and index contruction.