Hash Table vs. AVL Tree

A hash table is better than an AVL tree because hash tables are able to work a lot faster because inserting and searching have a constant big-O. AVL trees have a big-O of log n for inserting and searching. Our hash table consists of 1299827 AVL trees. This made all of the AVL trees very shallow, which makes traversing them a lot faster. For smaller data sets the AVL tree is faster than the hash table because the hash function slows the inserting and searching down. With big files the hash table works a lot faster because it traverses a lot shallower trees.