name 1

imfo 1

name 2

imfo 2

info 2

(start of empty

slot)

The average number of comparisons 'p' required for search are p=(n+1)/2 for pricepsful pearch and p=n for unsuccessful search where n is number of records in symbol table.

table.

The advantage of this organization is it takes his space and additions to the table is simple but the disabilities is higher acceptains time.

Search trees: In this, we add two links left and right in each record which points the record in the pearch tree. Whenever a name is to be added first the name is pearched in the tree. If it does not exist then a record for the new name is created and added at the proper position in the pearch tree.

If names are encountered in a random order, the average length of a path in the tree min be proportional to logar, where 'n' is the number of names. Since each peared follows one path from the root, the expected time needed to enter 'n' names and make 'm' inquiries is proportional to (n+m) dog n.

Note: If in is greater than about 50, this has advantages over the linear organization.