|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 首字Hash表 | | |  | 用动态数组实现，下同 | | | | | | | | | | | | | | | | | |  |  |  |  |
| 0 | 18 |  |  | ┅ | ┅ | ┅ | ┅ | ┅ | 某 | ┅ | ┅ | ┅ | ┅ | ┅ | ┅ | ┅ | 椅 | ┅ | ┅ | ┅ | ┅ |  |  |  |  |
| 1 | 0 | ∧ |  | ┅ | ┅ | ┅ | ┅ | ┅ | 60 | ┅ | ┅ | ┅ | ┅ | ┅ | ┅ | ┅ | 5 | ┅ | ┅ | ┅ | ┅ |  |  |  |  |
| 2 | ┅ | ┅ |  | ┅ | ┅ | ┅ | ┅ | ┅ |  | ┅ | ┅ | ┅ | ┅ | ┅ | ┅ | ┅ |  | ┅ | ┅ | ┅ | ┅ |  |  |  |  |
| 3 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | ┅ | ┅ |  |  | ┅ | 一 | ┅ | ┅ | ┅ | ┅ | ┅ | 种 | ┅ |  |  | 垫 | 套 | 子 | 披 | 背 |  |  |  |  |  |
| 5 | ┅ | ┅ |  |  | ┅ | 5 | ┅ | ┅ | ┅ | ┅ | ┅ | 7 | ┅ |  |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
| 6 | ┅ | ┅ |  |  | ┅ |  | ┅ | ┅ | ┅ | ┅ | ┅ |  | ┅ |  |  | ∧ | ∧ | ∧ | ∧ | ∧ |  |  |  |  |  |
| 7 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | ┅ | ┅ |  | \0 | 个 | 地 | 方 | 时 |  |  | \0 | 事 | 人 | 原 | 意 | 理 | 程 |  |  |  |  |  |  |  |  |
| 9 | ┅ | ┅ |  | 0 | 0 | 1 | 1 | 1 |  |  | 0 | 1 | 0 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| 10 | ┅ | ┅ |  | ∧ | ∧ |  |  |  |  |  | ∧ |  | ∧ |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | ┅ | ┅ |  | 方 |  | 面 |  | 间 |  |  | 物 |  | 因 |  | 义 |  | 由 |  | 度 |  |  |  |  |  |  |
| 13 | ┅ | ┅ |  | 0 |  | 0 |  | 0 |  |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  |  |  |  |  |  |
| 14 | ┅ | ┅ |  | ∧ |  | ∧ |  | ∧ |  |  | ∧ |  | ∧ |  | ∧ |  | ∧ |  | ∧ |  |  |  |  |  |  |
| 15 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┋ | ┋ | ┋ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ┋ | ┋ | ┋ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1023 | ┅ | ┅ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Trie索引树的一个样例示意图

在上面的样例中，首字Hash表的长度是1024，可以定义为一个结构数组：

#define HASHLEN 1024 // Hash表长度

typedef struct \_worditem {

unsigned short code; // 汉字的内码

unsigned short num; // 词头相同、下个字不同的词的个数

struct \_worditem \*next;

} TWOEDITEM, \* PTWOEDITEM;

typedef struct \_hashitem {

unsigned short num; // 该Hash码冲突的汉字个数

struct \_worditem \*link;

} THASHITEM, \* PTHASHITEM;

THASHITEM hashtable[HASHLEN]; // Hash表的定义

假设Hash值为0的字有18个，其中有“某”、“椅”等，那么这些Hash值冲突的字可以存放到一个动态数组中：

hashtalbe[0].link = (PTWOEDITEM)calloc(hashtalbe[0].num, sizeof(TWOEDITEM));

这18个Hash值冲突的字可按内码值排序存放，便于折半查找。