File System II
Berkeley FS
Log structured FS
Journaled
FAT FS
I B tr fs]
B-trees

B-Trees

disk balanced tree
read/
write/
chunk

B-tree: nodes of degree d: 2d

CSDT AMP IB
WNG VR KE

most 3 elements 4 Pointers
Insertion of B-tree

1. Insert CSD → Sorted

Insert T, grep the set CP OT

CD OT

S1

A1C1D T1

M → go left

A com

B1S1

A1B1C TEMP T1

Bit map.

FAT → Bitmap and Linking.

Link list.

low performance

Bitmap:

0000

Used Space

0000 0000
Unix Fragment Problem
Cyinder Group

Assign a group to

Log-structure F.S

Write frontier

Transaction
Journaling

(Ext 3, NTFS)

Every transaction completed,
keep a log in the journal.

Ext 3 logging strategy:

- Full data
- Metadata only (Default)
- ??

Unix FS

inode

Super block
blocks

tree list

How do you mount FS
Old DOS partitions

- Type
- Start, Length