I.

    divide disk into 2 pieces

        safe

        normal

1. Only way to write in the safe area is by special stack request.

2. Safe area is allocated separately from normal area.

3. Reading proceeds normally from either area.

II.

    <u>format safe area</u>
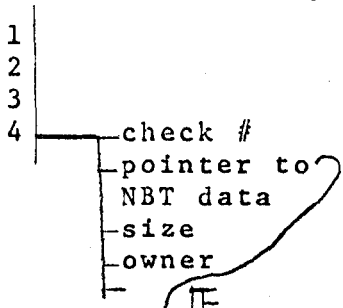
        several files

        each file in safe area has

            1. an ordinal

            2. a check number

   <u>2 special files in safe area</u>

        1st has K word entry for each other file [in order of ordinal]

            a) check number

            b) location data of NBT data in 2nd file

            c) site

            d) owner

                etc.,

1   2nd has all NBT data for rest of files in safe area
2
3 — check #
4 — pointer to NBT data
    — size
    — owner

    def of file

III.

    A) other files in safe area will be divided into 2 types

       a) directory pages

       b) permanent files

       c) account blocks

    B) a directory page has a list of pages

       a) BCD name

       b) capability

    c) a capability is a pair

       a) object

       b) allowed operations

D) 3 kinds of objects; directory pages, permanent files,
   account blocks allowed operations:
   a) directory pages:
        get entry
        make new entry
        change entry
        destroy
   b) permanent files:
        locate for read
        locate for write
        locate for append
        destroy
   c) account blocks:
        charge time
        make directory pages
        make files
        make sub block?
        destroy?

IV.

User Basic Moves	Parameters	Result
locate a file for read	fnt entry for directory page, BCD name	fnt entry
locate a file for write	fnt entry for directory page, BCD name	fnt entry
locate a file for append	fnt entry for directory page, BCD name	fnt entry
locate a directory page	fnt entry for directory page, BCD name	fnt entry
write a file in safe area	fnt entry for directory page, BCD name	fnt entry
make a new entry	fnt entry for directory page, BCD name	fnt entry
modify an old entry	fnt entry for directory page, BCD name	fnt entry
create a directory page	fnt entry for directory page, BCD name	fnt entry
create a permanent file	fnt entry for directory page, BCD name	fnt entry
destroy a directory page	fnt entry for directory page, BCD name	fnt entry
destroy a permanent file	fnt entry for directory page, BCD name	fnt entry
create account block	fnt entry for directory page, BCD name	fnt entry
destroy account block	fnt entry for directory page, BCD name	fnt entry