7/9/70/3/

LOW LEVEL DISK SYSTEM ACTIONS

1. Create File

IP1 D: Accounting Block No.

IP2 BD: Shape Numbers

OP1 D: Unique name/disk address word

OP2 C: ECS Incarnation

Remarks: File is created open with no blocks

2. Destroy File

IP1 C: ECS Incarnation

Remarks: File must exist and be opened only by this process. Blocks may exist and be attached attached. Block in map causes Error.

3. Open File read-only

IP1 C: Closed disk file

OP1 C: ECS Incarnation

Remarks: Cap for ECS Incarnation has write, destroy, etc option bits off.

4. Open File read/write

IP1 C: Closed disk file

OP1 C: ECS Incarnation

Remarks: Cap for EOS Incarnation has write, option bit on.

5. Close File

IP1 C: ECS Incarnation

Remarks: Blocks may be attached. Block in map causes Error.

6. Read File

IP1 C: ECS Incarnation

IP2 D: File address

IP3 D: CM address

IP4 D: Word count

7. Write File

C: ECS Incarnation

D: File address IP2

D: CM address IP3

D: Word count

Remarks: ECS incarnation capability must have write option bit on

8. Move Block

C: ECS Incarnation (Source)

D: File address (Source)

C: ECS Incarnation (Sink)

IP4 D: File address (Sink)

Remarks: Block exists in sink or does not exist in source causes Error.

9. Attach Block(s)

C: ECS Incarnation

D: File address

D: Word count

XG E Ist Fil and not attach (always) Remarks: Does user-attach of all indicated blocks or up to 1st non-existant block (Freturn).

10. Detach Block(s)

C: ECS Incarnation IP1

D: File address IP2

D: Word count

Remarks: Does user-detach of all indicated blocks or up to 1st non user-attached block (Error).

11. Make Map Entry(read-only)

C: Subprocess (class-code)

IP2 D: Index in logical map IP3 C: ECS Incarnation

IP4 D: File address

D: CM address IP5

D: Word count IP6

Remarks: Clears map entry (see Zero Map Entry) and does map-attach of all indicated blocks or up to non-existent block. Constructs read-only map entry containing initial existing blocks.

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The C: sulp

The D: index

The D: word went

The D: word went IPH C: new Els incarn IP5 D: fil oclock

12. Make Map Entry (read/write)

IP1 C: Subprocess (class-code)

IP2 D: Index in logical map

IP3 C: ECS Incarnation

IP4 D: File address

IP5 D: CM address

IP6 D: Word count

Remarks: Same as read-only except that

a) ECS Incarn cap must have write option bit

b) Constructed map entry is read/write

13. Zero Map Entry

#IP1 C: Subprocess (class-code)

IP2 D: Index in logical map
IP3 C: Ecs incorn - existing map entry

Remarks: If file involved is an ECS Incarnation then all indicated blocks are map-detached.

Map entry is then zeroed.

14. Create Block(s)

IP1 C: ECS Incarnation

IP2 D: File address

IP3 D: Word count

Remarks: Creates all indicated blocks or up to 1st existing block (Error). Blocks are created attached.

15. Destroy Block(s)

IP1 C: ECS Incarnation

IP2 D: File address

IP3 D: Word count

Remarks: Destroys all blocks or up to 1st block which:

a) Is attached by another process (Freturn)

b) Doesn't exist(Freturn) ERROR

c) Is in a map (Error)

16. Freeze File

IP1 C: ECS Incarnation

IP2 D: Accounting block number (Atl Lang)

17. Thaw File

IP1 C: ECS Incarnation

18. Make Shared Claim on File
IP1 C: ECS Incarnation

19. Make Exclusive Claim on File

IP1 6: ECS Incarnatiom

20. Release Claim on File

IP1 C: ECS Incarnation

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