ACCOUNTING BLOCK SERVICES OPERATION: (D0.ABSV in OPERCL)

(Single operation with 5 datum parameters; IP1 indicates desired service. Error if IP1<0 or IP1>4.)

I. Create Accounting Block:

IP1 D: 0
OP1 D: Accounting Block Number
Action: New Accounting Block is created with reservations and charges set to zero.
Errors: None

II. Destroy Accounting Block:

IP1 D: 1
IP2 D: Accounting Block Number
Action: Destroys Accounting Block unless destruction prevented by error condition.
Errors: Accounting block currently funding processes and/or files.
Accounting block currently holding reserved space and/or charges.
Accounting block does not exist.

III. Fund this Process from Accounting Block

IP1 D: 2
IP2 D: Accounting Block Number
Action: Swappable ECS space for files opened by this process is subsequently charged to the indicated Accounting Block.
Errors: Accounting block contains insufficient swappable ECS reservation.
Accounting Block does not exist.
IV. Move Surplus Reserved Space (ECS or Disk) Between Accounting Blocks:

IP1 D: 3
IP2 D: Accounting Block "A" Number
IP3 D: Accounting Block "B" Number
IP4 D: Type of Move (see below)
IP5 D: Amount of Space to be Moved (see below)

Action: IP4 and IP5 are interpreted as follows:

**IP4:** Sign: + Increment Block A reservation by IP5.
- Set Block A reservation to IP5.

Magnitude: 0 Move ECS space.
1 Move Disk space.

**IP5:** Sign: + Magnitude indicates amount of space to increment or set Block A.
- Magnitude indicates amount to decrement Block A. (increment Block B)
Illegal in set-type move.

Magnitude: Amount of space to increment or set (Words of ECS or Sectors of Disk)

Note: If amount to move exceeds surplus in source block, then as much as possible is moved. In all cases, X6 contains amount actually moved, upon return. (X6≥0)

Space*time charges are updated in both accounting blocks even if no space is moved. (Useful for daemon)

Errors: IP4 and IP5 both negative.
Accounting Block "A" does not exist.
Accounting Block "B" does not exist.

V. Display Accounting Block:

IP1 D: 4
IP2 D: Accounting Block Number
IP3 D: Charge Reset Flag

OP1 D: Contents of Accounting Block

Action: Contents of block are returned as datum return-parameters (8 words).
Disk and ECS space*time charges are set to zero if IP3 ≠ 0.

Errors: Accounting Block does not exist.