

ACCOUNTING BLOCK SERVICES OPERATION: (DO.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. ( $X6 \geq 0$ )

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  $\neq$  0.

Errors: Accounting Block does not exist.