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Identification

Disk and Drum I O Traffic Metering

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Purpose

Section BO.3.03 describes the method for metering the memory load and GIOC load for words transmitted to and from disk and drum.

Secondary studage IO traffic will be measured in words transmitted, since USA for transmitting words to and from secondary this quantity is linearly rolated to the number of memory cycles used and the storage. The metering figures must be accumulated in the AMT, since the figure is sent to accounting by a call from the AMT at a time when page faults are not possible. The DIM may be running as a part of any process, not necessarily the one for which I-O is being done. See section BG. 1000 for a complete explanation of this situation.

The call from the DIM is are call meter_CPU(pcycl, AMT and complete); call meter_CPU(pcycl, my AMT and complete);

where

my AMT stot is the slot number in the AMT for the process currently running

AMT stot is the slot number in the AMT for the process for which I was done

nwords is the number of words transmitted

pcycl is the number of processor cycles used in the DIM for servicing this transmission

device is a device type identifier

The procedure "Meter SS-10"

- 1) meters the transmission and the cycles used to the appropriate locations in the AMT
- 2) returns

The calls to "meter_CPU" are necessary to account for the mainframe time required to service the I 0 request, which should be charged to the process requiring I 0 and not the currently running process.

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