

TO: Distribution
FROM: N. I. Morris
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SUBJECT: New Drum DIM

A new drum Device Interface Module (DIM) has been installed which enables the system to increase the effective speed of the drum. This is done by writing multiple copies of a page from core onto the drum and accessing the closest copy on reading. This feature is controlled by a modified DRUM configuration card:

DRUM FREQ NRECS PORT INTO INT1 INT2 FOLDS

The new parameter FOLD indicates how many copies should be made when a page is written. It must be 1, 2, 4, 10, or 20. A consequence of this scheme is that the amount of space available on the drum is reduced. The NRECS argument on the PAGE card must be modified as follows to compensate for this:

<u>FOLDS</u> <u>(on DRUM card)</u>	<u>NRECS</u> <u>(on PAGE card)</u>
1	4096.
2	2040.
4	1020.
10	510.
20	255.

The FOLDS argument on the DRUM card may only be changed when no information is stored on the drum. Thus, prior to changing it, a flush of the drum must be done and the drum cleared by the following BOS command:

TEST PART PAGE WRITE