

To: MSPM Distribution
From: M. R. Thompson
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Subject: BG.10 - 14

These sections are revisions of the previously published section BG.10-13 and BG.15 (3/10/66). In general the basic functions of the modules described here have not changed. The purpose of these revisions is to reflect changes in implementation. In addition the EPL specifications of the data structures used have been added to each section. The important specific changes to each section are listed below.

1. BG.10 Active File Table

The date and time used and modified items and the file activity indicator were moved from the AST to the AFT. Also each AFT entry is now threaded to the AFT entry for its parent directory so that date and time changes can be reflected up through the file hierarchy by the DIMs or usage control.

2. BG.11 Usage Control

The concept of opening and closing files no longer exists, and thus the mandatory file locking scheme that was implied no longer exists. In its place a new primitive setlockstatus has been added which allows a user to directly lock a file for reading, writing, or data-sharing if and when he wishes. The update primitives have been switched from segment control to usage control since the date and time statistics are now kept in the AFT instead of the AST.

3. BG.12 I/O Queues

The DIM table information, file pointer and account number were removed from the I/O Queues since the DIM can now get this information directly from the AFT entry for the file.

4. BG.13 I/O Queue Control

The delete primitive has been removed from I/O Queue Control.

5. BG.14 Thread Manipulating Routines

These routines have been redesigned to specifically thread and unthread the I/O Queues. Thus any procedure which uses these routines must include the EPL declarations for the queue structure.