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SUBJECT: Multi-segment files on Multics

Segments on Multics have a size limit which is perfectly acceptable for most applications. However, subsystems which make use of large data bases need ways of treating many segments as a single file. An approach that has been adopted on Multics is to put these segments into a directory with a non-zero bit count. Such a directory is called a multi-segment file (msf).

This convention is considered to be at a higher level than the file system and command system. That is, the file system and most of the command system do not recognize msf's. To manipulate an msf the user must use the tools provided him by the subsystem which maintains the msf. For instance, he cannot expect to edit an msf containing ASCII information using a standard Multics editor. For convenience, the list, status and delete commands do recognize msf's. In addition, the IO daemon, if given an msf, will assume that the bit count of the msf is the number of segments in the msf and that if the msf contains  $N+1$  segments then their names are the characters 0, 1, 2, ..., N.