The own-word is another protective device. When an item is written nonaddressed, the user program specifies an own-word to be permanently associated with that item on the drum. Whenever a user program attempts to rewrite or expunge an item, it must present the word that matches the item's own-word. This method of identification helps to protect files from accidental destruction by programs under development.

In order to allocate storage space as it is requested, the I-O Processor must maintain information about the status of each quarter-track and about the status of sectors within each quartertrack. One possible method is to maintain all free space as threaded lists, each unused sector or quarter-track pointing to the next. Using this method, however, makes it almost impossible for the I-O Processor to perform any optimization of storage allocation, since no Executive routine could have access to a list of all unused quarter-tracks at one boom position without performing a prohibitive number of drum reads. For this reason, information about the status of each sector or quartertrack is instead maintained in tables in Executive memory. One table contains one word for each of the 384 quarter-tracks on The quarter-tracks are specified as free, held, or unusable (i.e., physically damaged), and empty, full, or partially full. The I-O Processor uses this table in an attempt to minimize future boom movement when assigning additional quartertracks to a user program.

The first two sectors of each quarter-track on the Fastrand are allocated for use by the I-O Processor. These two sectors, comprising only 0.2% of the storage capacity of the quarter-track, are used as an availability table for the rest of the sectors,