

System Users.

Users working for the System.

A number of elements of the system do not appear in the ^{explicitly} description of the ^{system} storage ^(PO.601) hierarchy because ~~they do not~~ ^{these elements} function as ^{ordering} users of the system.

~~users control~~ ~~they are handled by being~~ these functions are carried out by someone logging in as ^{an} ~~an~~ ^{ordinary} user ^(although perhaps authorized) from a standard ~~data~~ typewriter console. From his typewriter he then ^{directs} ~~directs~~ ^{system operations} ~~system operations~~. Here is a list of the functions carried out in this way: ^{users}

1. Card equipment operator. For ^{physical} ~~every~~ ^{each} card reader, punch, or printer, there is one operator. ~~the operator~~ ~~directs a program which controls the~~ ~~the~~ ~~the~~ ~~user~~ ~~he~~ ~~controls~~ ~~the~~
2. System operator. This user is ~~usually~~ ^{who} the only one ~~who~~ ^{who} in direct reconfiguration, system down, etc. [Major system problems are reported in his typewriter?]
3. Tape operator. This operator receives input and disposes messages at his typewriter; and he is in charge of the tape results. He

reports trouble with tape reel or claims to his program, which notifies the user and takes appropriate other action.

4. Disk Pool operator. (See tape operator)
5. System administrator (may be a group of users). From his type writer, he can add to the list of personnel authorized to use the system; ~~modify~~ ~~and~~ reorganize billing structure, etc.
6. Programming staff. (May be a group of users) Person with authorization to modify libraries or sequence procedures. Except for certain procedures in ring 0, ~~the~~ ~~insertion~~ a new procedure can be inserted into the system while the system is operating by a Programming Staff user.
7. Test & Diagnostic Engineer. When non-scheduled diagnostics must be run, the T-D engineer logs in and reserves equipment, necessary to make the tests. He can perform certain tests ~~as~~ as a user of the system; these require deactivating the device in question from the system which, of course, he can do from his type writer.