

To:

Administrative Distribution

From:

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Subject: Development Machine Teletype Requirements

There presently exists a great deal of confusion over the terminal requirements for the development machine and how these requirements interact with the service area. This memo is an attempt to clarify the requirements for the both machines and also to indicate how the terminals should be located.

Service Machine: Operations now requires a minimum of four (4) terminals for normal service. They also require an additional terminal which is used for tape copies, user retrievals, and complete dumps. Hopefully, they would also have available to them a spare terminal for use if one of the others failed. This makes a total of six terminals. By placing two of these terminals near the data phone stations and making one of them a 133 baud unit and the other a 150 baud unit, they can be made to do double duty as test units for malfunctioning communication gear. The other four terminals should be located as a group near the GE-645 operators console for they serve as the main control of the system.

Development Machine: For the greater part of the time, the development machine requires only a single console plus a spare, should the first malfunction. In the event though, that a new system is being tested, which is the primary reason for having a development machine available, at least three terminals are required. The testing procedure, described in MCB-453 requires at least three, the initializer, and two daemons, plus others if more extensive testing is desired. Thus, there must be at least three terminals available, one of which must be a 150 baud unit. Further, there should be a minimum of eight lines into the GIOC to allow more extensive testing if desired. These lines should be split as follows: five - 150 baud and three - 133 baud. The placement of the minimum three terminals should be as a group located as close as possible to the GE-645 for exactly the same reasons as these used for the service machine. Spreading them out only makes the checkout job more difficult than it already is.

Thus, in order to facilitate operations of the service system and checkout of new systems on the development machine, a minimum of nine terminals should be maintained in the machine room on the 9th floor.

When these terminals are not in use for operations on test purposes they have and will continue to be used as normal terminals by the Multics development group.