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<u>Identification</u>

System Operator Command to Create New Processes startup
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Purpose

Among the processes listed as system processes in BQ.1.02, only some in the System Control Process-Group exist after Multics is initialized and the system operator's process-group is created. Certain of the other processes in the list are created as the result of the system operator issuing the startup command. In Initial Multics initialization is required for the backup system.

Usage

The system operator types

startup process_name

where process_name is the name of a system process or process-group which the system operator is authorized to create.

<u>Implementation</u>

The contents of data segments "operator_comm" and "request_name" (that is, the structures op_comm and op_req) are described in BX.15.05. A data segment shared by System Control and the operator's process-group contains the character string:

dcl process_name char (24) based (sp);

The startup command takes the following steps:

- 1. Place the argument process_name in sp-process_name.
- 2. Create an event channel over which System Control can reflect completion of the startup request; place the name of the event channel in rp—xop_req.ref_chn.
- 3. Place the name "startup" in rp→op_req.req_name.

- 4. Signal System Control, over the event whose ID is in p→op_comm.op_req_chn.
- 5. Call the Wait Coordinator (BQ.6.06) to wait for the reflection signal from System Control.
- 6. Examine status returned by System Control, and inform the system operator, by means of a console message, of the success or failure of process creation.
- 7. Delete the event channel created in step 2.
- 8. Return.