Identification

Connect generator procedure
Harlow Frick

Purpose

Connect_generator is a master mode procedure which issues
connect signals to all processors in the system. Connect_
generator is accessible to those Multics modules which
must clear the associative memories of all processors
in the system. Each processor clears its associative
memory in response to a connect fault as described in
BK.3.08.

Discussion

For each processor available to the system, connect_generator
performs the following steps:

1. Sets connect_flag for the target processor to
    non-zero. (See Section BK.4.01 for a description
    of the connect_flag array.)

2. Issues a connect signal to the target processor.

3. Waits for a positive response from the target
    processor. When the target processor detects
    the connect signal, it will respond by clearing
    its entry in the connect_flag array.

(In the implementation of connect_generator, Steps 1 and
2 are repeated for every processor available to the system
before Step 3 is executed.)

Connect_generator is called as follows:

    call master_mode_ut$connect_generator;