Identification

Procedure for Monitoring Operator Functions
op_checker
K. J. Martin

Purpose

The procedure op_checker helps implement a nearly continuous watch on operator functions which involve unsolicited requests. The operator's login responder, op_listener (described in BX.15.01), adds op_checker to the end of every command sequence typed in by every operator. Op_checker goes into an unending wait for all signals associated with unsolicited-request functions. The operator can get out of op_checker only by quitting. Thus, an explicit action is required not to monitor unsolicited-request functions rather than to monitor them.

Op_checker also waits for a signal from System Control indicating that a new function has been added to this operator's duties. (See op_report described in BX.15.02). The op_here procedure (also described in BX.15.03) is called as a result of a signal from System Control over the appropriate event-call channel.

Usage

The procedure op_checker may be explicitly invoked by an operator at command level by typing:

    op_checker

The operator's login responder causes op_checker to be invoked by appending

    ; op_checker

to each command sequence.

Any procedure may call it normally:

    call op_checker;

Implementation

The procedure op_checker uses the op_function segment in the operator's process-group directory to determine for what unsolicited-request functions (if any) the operator is responsible. The following structure in op_function contains that information:
The steps in op_checker are:

1) If no unsolicited-request functions are assigned to this operator, return.

2) For each unsolicited-request function, in case an event signal for this function may have been lost because of quits or changes of operators, call that function's service procedure directly (using fake_event, BY.10.01). The service procedure returns after servicing all requests which are currently outstanding. The media command (BX.15.09) is one such service procedure.
3) When all unsolicited-request functions have been processed, call wait (BQ.6.06) to wait on all the event channels specified in the op_function segment. When an unsolicited request arrives, op_checker finds out what function it is associated with and calls the appropriate service procedure. Op_checker also waits on the event channel associated with the assignment of new functions to the operator. That channel is specified in p_op_fcn.new_tbl_chn. The op_here_procedure (BX.15.02) is called when that event is signalled.