

MODIFIED SCHEDULER

The scheduler maintains two process queues. The first queue has high priority [ALL processes in the first queue are run before any process is run from the second queue] but allows ~~only~~ only short quanta - 45 ms. The second queue has a 100 ms quanta.

Any process which ~~executes~~ is in the first (high priority) queue, and which executes for its entire quantum is rescheduled into the second queue.

There are ~~two~~ three circumstances in which a ~~process~~ process is placed in the first queue:

- 1) IT HAS JUST BEEN CREATED
- 2) IT HAS JUST UNKUNG FROM AN event channel (it received an event or interrupt)
- 3) A process, which is about to be destroyed, and which is not currently scheduled, must be scheduled so that the swapper can destroy it.

Implementation

All calls on \uparrow SCHED \uparrow place a process in the first queue.
 \uparrow SWAPOUT \uparrow calls \uparrow RESCHED \uparrow every time it swaps a process out. If the process being rescheduled is already in the second queue, \uparrow RESCHED \uparrow is a NO-OP. Otherwise, a call is made on \uparrow DESCHED \uparrow to remove the process from the first queue. Then the process is scheduled into the second queue.

Register changes

- I. CALLS ON \uparrow RESCHED \uparrow look like
CALLS ON \uparrow SCHED \uparrow
- II. \uparrow RESCHED \uparrow uses all registers used
by \uparrow SCHED \uparrow and B6