Identification

Appendix to The Locker Facility, BQ.7.00
Michael J. Spier

Discussion

The design of the--now implemented--Locker facility has been slightly modified.

The changes are the following:

1. The Locker now resides in all rings.
2. The Status-return and wait_sw arguments are now defined as fixed binary (instead of bit string).

The calling sequences are:

```c
call locker_wait(lock_ptr, wait_sw, time_limit, status);
call locker_try(lock_ptr, ev_chn, wait_sw, time_limit, status);
call locker_reset(lock_ptr);
```

declare lock_ptr pointer, ev_chn bit(70), (wait_sw, time_limit, status) fixed bin(17);

The status-return can assume the following values:

0 = lock successfully set

(all other values indicate that the lock could not be set, because):

1 = it has previously been locked by this process (attempted recursive locking)

2 = something has gone wrong

3 = 'time_limit' has elapsed.