

# Assignment 7

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March 4, 2017

## 1 FUTURES - PRODUCER AND CONSUMER

The following are the functions and their descriptions:

`future_alloc.c` - It allocates a `future_t` and initializes it with the state as `FUTURE_EMPTY` and a `NULL` PID.

`future_free.c` - It will deallocate the memory allocated to `future_t`.

`future_get.c` - It waits for the value to be added to the `future_t` and if the value is not available (means the state is `FUTURE_EMPTY`) it waits on it to be produced.

`future_set.c` - It sets the value for the future and sets its state to `FUTURE_READY`.

`xsh_prodcons.c` - flag “-f” handles logic of producer consumer with futures implementation.

Contribution: Yash Sumant Ketkar.