

## custom memory manager..

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- *From:* shiva <[nikhilbhargav\\_nsit@xxxxxxxxxxxxxx](mailto:nikhilbhargav_nsit@xxxxxxxxxxxxxx)>
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Hello,

I am developing a user level memory manager for a protocol stack. It will replace the usual malloc() by something like my\_malloc() and free by my\_free(). The basic idea is to minimize the chances of memory non-availability, minimize system calls at run time thereby minimizing risk for failure, and use the memory in an efficient way.

The problem is i donot want to change the prototype of my\_malloc which is currently same as malloc() but I also want to associate debug information along with every buffer allocated.

For example, if function f1() from task T1 calls my\_malloc(), then I want to associate things like

1. task\_id,
2. register counters,
3. stack trace or any other relevant debug info that would help me debug any memory crash.

Can any one suggest how can I do it? I mean which system call will help me and whatother info (other than the one i have mentioned) can be used?

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