NAME

vm_map_lookup, **vm_map_lookup_done** - lookup the vm_object backing a given virtual region

SYNOPSIS

#include <sys/param.h>
#include <vm/vm.h>
#include <vm/vm_map.h>

int
vm_map_lookup(*vm_map_t *var_map, vm_offset_t vaddr, vm_prot_t fault_type, vm_map_entry_t *out_entry, vm_object_t *object, vm_pindex_t *pindex, vm_prot_t *out_prot, boolean_t *wired*);

void
vm_map_lookup_done(*vm_map_t map, vm_map_entry_t entry*);

DESCRIPTION

The **vm_map_lookup**() function attempts to find the *vm_object*, page index and protection, for the given virtual address *vaddr*, in the map *var_map*, assuming a page fault of the type *fault_type* had occurred.

Return values are guaranteed until **vm_map_lookup_done**() is called to release the lock.

IMPLEMENTATION NOTES

The function **vm_map_lookup**() acquires a read-lock on the map **var_map*, but does not release it. The caller should invoke **vm_map_lookup_done**() in order to release this lock.

RETURN VALUES

The **vm_map_lookup**() function returns KERN_SUCCESS, and sets the **object*, **pindex*, **out_prot*, and **out_entry* arguments appropriately for the hypothetical page fault.

SEE ALSO

vm_map(9)

AUTHORS

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