

**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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