

**NAME**

**vm\_map\_inherit** - set fork inheritance flags for a range within a map

**SYNOPSIS**

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

*int*

```
vm_map_inherit(vm_map_t map, vm_offset_t start, vm_offset_t end, vm_inherit_t new_inheritance);
```

**DESCRIPTION**

The **vm\_map\_inherit()** function sets the inheritance flags for the range *start* to *end* within the target *map* to the value *new\_inheritance*.

The *new\_inheritance* flag must have one of the values VM\_INHERIT\_NONE, VM\_INHERIT\_COPY, or VM\_INHERIT\_SHARE. This affects how the map will be shared with child maps when the associated process forks.

**IMPLEMENTATION NOTES**

The **vm\_map\_inherit()** function obtains a lock on the *map* using **vm\_map\_lock(9)** for the duration of the function.

**RETURN VALUES**

The **vm\_map\_inherit()** function returns KERN\_SUCCESS if the inheritance flags could be set. Otherwise, if the provided flags were invalid, KERN\_INVALID\_ARGUMENT will be returned.

**SEE ALSO**

fork(2)

**AUTHORS**

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