NAME

vm_fault_prefault - cluster page faults into a process's address space

SYNOPSIS

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

void
vm_fault_prefault(*pmap_t pmap*, *vm_offset_t addra*, *vm_map_entry_t entry*);

DESCRIPTION

The **vm_fault_prefault**() function provides a means of clustering pagefaults into a process's address space. It operates upon the physical map *pmap*. The *entry* argument specifies the entry to be prefaulted; the *addra* argument specifies the beginning of the mapping in the process's virtual address space.

It is typically called by **vm_fault**() after the first page fault. It benefits the execve(2) system call by eliminating repetitive calls to **vm_fault**(), which would otherwise be made to bring the process's executable pages into physical memory.

IMPLEMENTATION NOTES

This is a machine-independent function which calls the machine-dependent pmap_is_prefaultable(9) helper function to determine if a page may be prefaulted into physical memory.

SEE ALSO

execve(2), pmap_is_prefaultable(9)

AUTHORS

This manual page was written by Bruce M Simpson <*bms@spc.org*>.