

NAME

vnode_pager_setsize - notify the VM system about updates in the file size

SYNOPSIS

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

void

```
vnode_pager_setsize(struct vnode *vp, vm_offset_t nsize);
```

DESCRIPTION

vnode_pager_setsize lets the VM system know about a change in size for a file, and updates the object size and vnode pager size of the vm object in *vp* with *nsize*. Page faults on the object mapping with offset beyond the new object size results in *SIGBUS*.

Pages between the old EOF and the new EOF are removed from the object queue if the file size shrinks. In case the new EOF specified by the *nsize* argument is not aligned to page boundary, partial-page area starting beyond the EOF is zeroed and marked invalid. if the page exists resident.

In case the vnode *vp* does not have a VM object allocated, the effect of calling this function is no-op.

This function must be used within file system code to implement truncation if the file system allocates vm objects for vnodes.

LOCKS

The vnode should be exclusively locked on entry and will still be locked on exit.

SEE ALSO

vnode(9)

HISTORY

The **vnode_pager_setsize** manual page first appeared in FreeBSD 14.

AUTHORS

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