NAME

vm86old, vm86 − enter virtual 8086 mode

SYNOPSIS

#include <sys/vm86.h>

int vm86old(struct vm86_struct ****info*);**

int vm86(unsigned long *fn***, struct vm86plus_struct ****v86***);**

DESCRIPTION

The system call **vm86**() was introduced in Linux 0.97p2. In Linux 2.1.15 and 2.0.28, it was renamed to **vm86old**(), and a new **vm86**() was introduced. The definition of *struct vm86_struct* was changed in 1.1.8 and 1.1.9.

These calls cause the process to enter VM86 mode (virtual-8086 in Intel literature), and are used by **dosemu**.

VM86 mode is an emulation of real mode within a protected mode task.

RETURN VALUE

On success, zero is returned. On error, −1 is returned, and *errno* is set appropriately.

ERRORS

EFAULT

This return value is specific to i386 and indicates a problem with getting user-space data.

ENOSYS

This return value indicates the call is not implemented on the present architecture.

EPERM

Saved kernel stack exists. (This is a kernel sanity check; the saved stack should exist only within vm86 mode itself.)

CONFORMING TO

This call is specific to Linux on 32-bit Intel processors, and should not be used in programs intended to be portable.

COLOPHON

This page is part of release 5.02 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man−pages/.