



### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'vm86.2'***

#### ***\$ man vm86.2***

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#### **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 5.10 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/>.

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