

NAME

setarch - change reported architecture in new program environment and set personality flags

SYNOPSIS

```
setarch arch [options] [program [arguments]]
```

```
setarch --list|-h|-V
```

DESCRIPTION

setarch currently only affects the output of **uname -m**. For example, on an AMD64 system, running 'setarch i386 program' will cause 'program' to see *i686* instead of *x86_64* as the machine type. It also allows to set various personality options. The default **program** is `/bin/sh`.

OPTIONS

--list List the architectures that can be set.

--uname-2.6

Causes the program to see a kernel version number beginning with 2.6.

-v, --verbose

Be verbose.

-3, --3gb

Specifies that processes should use a maximum of 3GB of address space on systems where it is supported (`ADDR_LIMIT_3GB`).

--4gb Ignored (for backward compatibility only).

-B, --32bit

Turns on `ADDR_LIMIT_32BIT`.

-F, --fdpic-funcptrs

Userspace function pointers point to descriptors (turns on `FDPIC_FUNCPTRS`).

-I, --short-inode

Turns on `SHORT_INODE`.

-L, --addr-compat-layout

Changes the way virtual memory is allocated (turns on the `ADDR_COMPAT_LAYOUT`).

-R, --addr-no-randomize

Disables randomization of the virtual address space (turns on `ADDR_NO_RANDOMIZE`).

-S, --whole-seconds

Turns on `WHOLE_SECONDS`.

-T, --sticky-timeouts

Turns on `STICKY_TIMEOUTS`.

-X, --read-implies-exec

Turns on `READ_IMPLIES_EXEC`.

-Z, --mmap-page-zero

Turns on `MMAP_PAGE_ZERO`.

-V, --version

Display version information and exit.

-h, --help

Display help text and exit.

EXAMPLES

```
setarch ppc32 rpmbuild --target=ppc --rebuild foo.src.rpm
```

```
setarch ppc32 -v -vL3 rpmbuild --target=ppc --rebuild bar.src.rpm
```

```
setarch ppc32 --32bit rpmbuild --target=ppc --rebuild foo.src.rpm
```

AUTHOR

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AVAILABILITY

The setarch command is part of the util-linux package and is available from [Linux Kernel Archive](#).