## NAME

setjmp, longjmp – execute non-local goto

## SYNOPSIS

int save[3];

setjmp(save)

longjmp(save)

## DESCRIPTION

These routines are useful for dealing with errors and interrupts encountered in a low-level subroutine of a program.

Setjmp saves its stack environment in save for later use by longjmp. It returns 0 on the initial call.

Longjmp restores the environment saved in save by setjmp. It then returns in such a way that execution continues as if the call of setjmp had just returned (with a nonzero value). All accessible automatic and register data have values as of the time setjmp was called.

The routine that called *setjmp* must still be active when *longjmp* is called.

Although these functions are similar in purpose to *setexit* and *reset*, they permit several *setjmp* calls to be made, each with a different *save*. *Longjmp* may then return to an y of them by selecting the appropriate one.

## SEE ALSO

signal(II), reset(III)