

## ATCHINTR(b)

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### NAME

atchintr — attach a process to an interrupt

### SYNOPSIS

(atchintr = 17.)

**atchintr(process, vector, entry)**

**int process; /\* process number \*/**

**int vector; /\* device vector address \*/**

**int entry; /\* process entry point \*/**

### DESCRIPTION

*Atchintr* attaches the process *process* to the interrupt vector at address *vector*. The PC,PS pair is loaded with the entry point *entry* and the priority of the process, respectively. This EMT trap is provided to enable the catching of interrupts for a device. If a process is not attached to a device, interrupts for this device are ignored. A value of 1 is returned from C.

In assembly language, the following registers must be set up:

r0     vector address

r1     process number

r2     entry point

The c-bit is cleared for a normal return.

### SEE ALSO

dtchintr(b), attach(a), detach(a).

### DIAGNOSTICS

A value of zero is returned from C if the process does not exist, the vector address is out of range, or if access to the control and status register of the device produces a bus error.

In assembly language, the c-bit is set to indicate an error.

### FUTURE AND DMERT DIAGNOSTICS

A value of -1 is returned if the process does not exist, or if the vector is invalid.