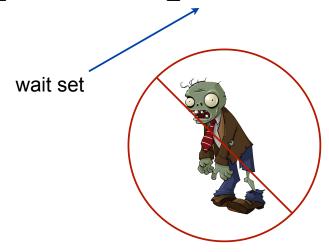


Reaping: waitpid

pid_t waitpid(pid_t pid, int* stat, int ops)



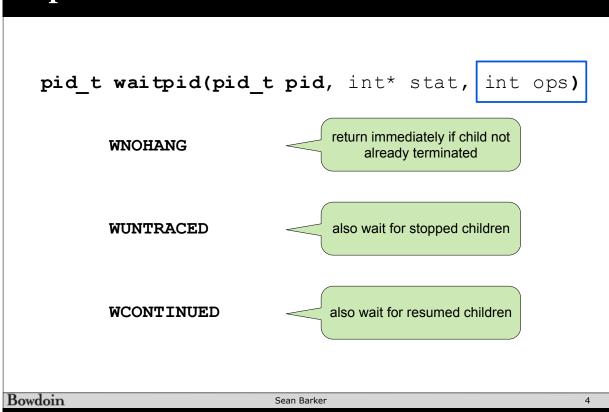
Status Macros

Sean Barker

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Option Macros

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System Call Error Handling

Always check return values!

```
if ((pid = fork()) < 0) {
    fprintf(stderr, "fork error: %s\n", strerror(errno));
    exit(0);
}</pre>
```

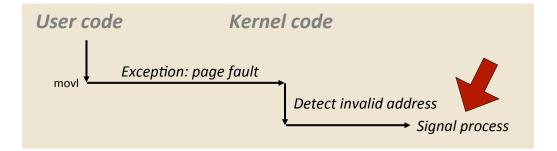
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Shell Design

Recap: Segmentation Fault

```
int a[1000];
main ()
{
    a[5000] = 13;
}
```

80483b7: c7 05 60 e3 04 08 0d movl \$0xd,0x804e360



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Signals

	ID	Name	Corresponding Event	Default Action	Can Override?
	2	SIGINT	Interrupt (Ctrl-C)	Terminate	Yes
	9	SIGKILL	Kill process (immediately)	Terminate	No
	11	SIGSEGV	Segmentation violation	Terminate & Dump	Yes
	14	SIGALRM	Timer signal	Terminate	Yes
	15	SIGTERM	Kill process (politely)	Terminate	Yes
	17	SIGCHLD	Child stopped or terminated	Ignore	Yes
	18	SIGCONT	Continue stopped process	Continue (Resume)	No
	19	SIGSTOP	Stop process (immediately)	Stop (Suspend)	No
	20	SIGTSTP	Stop process (politely)	Stop (Suspend)	Yes

Signal Control Flow

