

Re-entrant Functions

_exit	fork	pipe	stat
abort*	fstat	read	sysconf
access	getegid	rename	tcdrain
alarm	geteuid	rmdir	tcflow
cfgetispeed	getgid	setgid	tcflush
cfgetospeed	getgroups	setpgid	togetattr
cfsetispeed	getpgrp	setsid	tcgetpgrp
cfsetospeed	getpid	setuid	tcsendbreak
chdir	getppid	sigaction	tcsetattr
chmod	getuid	sigaddset	tcsetpgrp
chown	kill	sigdelset	time
close	link	sigemptyset	times
creat	longjmp*	sigfillset	umask
dup	lseek	sigismember	uname
dup2	mkdir	signal*	unlink
execl	mkfifo	sigpending	utime
execve	open	sigprocmask	wait
exit*	pathconf	sigsuspend	waitpid
fcntl	pause	sleep	write

Table 1: Reentrant Functions Callable via a Signal Handler

* Not specified as being reentrant by POSIX, but are listed by the SVR4 SVID (AT&T 1989) as being re-entrant.

Problems can occur with functions that use malloc (may clash with the user when s/he is doing a malloc at the time of the interrupt – remember that malloc keeps a linked list which may get corrupted), use global variables improperly, or use static data structures (user may be writing to that static data structure when the signal hits).