Process management	pid = fork()	Create a child process identical to the parent
	pid = waitpid(pid, &statloc, opts)	Wait for a child to terminate
	s = wait(&status)	Old version of waitpid
	s = execve(name, argv, envp)	Replace a process core image
	exit(status)	Terminate process execution and return status
	size = brk(addr)	Set the size of the data segment
	pid = getpid()	Return the caller's process id
	pid = getpgrp()	Return the id of the caller's process group
	pid = setsid()	Create a new session and return its process group in
	l = ptrace(req, pid, addr, data)	Used for debugging
Signals	s = sigaction(sig, &act, &oldact)	Define action to take on signals
	s = sigreturn(&context)	Return from a signal
	s = sigprocmask(how, &set, &old)	Examine or change the signal mask
	s = sigpending(set)	Get the set of blocked signals
	s = sigsuspend(sigmask)	Replace the signal mask and suspend the process
	s = kill(pid, sig)	Send a signal to a process
	residual = alarm(seconds)	Set the alarm clock
	s = pause()	Suspend the caller until the next signal
Ella Managament	fd = creat(name, mode)	Obsolete way to create a new file
File Management	fd = mknod(name, mode, addr)	Create a regular, special, or directory i-node
	fd = open(file, how,)	Open a file for reading, writing or both
	s = close(fd)	Close an open file
	n = read(fd, buffer, nbytes)	Read data from a file into a buffer
		Write data from a buffer into a file
	n = write(fd, buffer, nbytes)	
	pos = Iseek(fd, offset, whence)	Move the file pointer Get a file's status information
	s = stat(name, &buf)	Get a file's status information
	s = fstat(fd, &buf)	
	fd = dup(fd)	Allocate a new file descriptor for an open file
	s = pipe(&fd[0])	Create a pipe
	s = ioctl(fd, request, argp)	Perform special operations on a file
	s = access(name, amode)	Check a file's accessibility
	s = rename(old, new)	Give a file a new name
	s = fcntl(fd, cmd,)	rue locking and other operations
Directory & File System Management	s = mkdir(name, mode)	Create a new directory
	s = rmdir(name)	Remove an empty directory
	s = link(name1, name2)	Create a new entry, name2, pointing to name
	s = unlink(name)	Remove a directory entry
	s = mount(special, name, flag)	Mount a file system
	s = mount(special, name, flag) s = umount(special)	Unmount a file system
	· •	Unmount a file system Flush all cached blocks to the disk
	s = umount(special)	Unmount a file system
	s = umount(special) s = sync()	Unmount a file system Flush all cached blocks to the disk
Protection	s = umount(special) s = sync() s = chdir(dimame)	Unmount a file system Flush all cached blocks to the disk Change the working directory
Protection	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory
Protection	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dirname) s = chmod(name, mode)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits
Protection	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chmod(name, mode) uid = getuid()	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the caller's uid
Protection	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chmod(name, mode) uid = getuid() gid = getgid()	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the caller's uid Get the caller's gid
Protection	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chmod(name, mode) uid = getuid() gid = getgid() s = setuid(uid)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the cailer's uid Get the caller's gid Set the caller's uid
Protection	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chmod(name, mode) uid = getuid() gid = getgid() s = setuid(uid) s = setgid(gid)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the cailer's uid Get the caller's gid Set the caller's gid Set the caller's gid
	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chroot(dimame, mode) uid = getuid() gid = getgid() s = setuid(uid) s = setgid(gid) s = chown(name, owner, group) oldraask = umask(complmode)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the cailer's uid Get the caller's gid Set the caller's uid Set the caller's gid Change a file's owner and group Change the mode mask
Protection Time Management	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chmod(name, mode) uid = getuid() gid = getgid() s = setuid(uid) s = setgid(gid) s = chown(name, owner, group) oldraask = umask(complmode) seconds = time(&seconds)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the cailer's uid Get the caller's gid Set the caller's gid Set the caller's gid Change a file's owner and group Change the mode mask Get the elapsed time since Jan. 1, 1970
	s = umount(special) s = sync() s = chdir(dimame) s = chroot(dimame) s = chroot(dimame, mode) uid = getuid() gid = getgid() s = setuid(uid) s = setgid(gid) s = chown(name, owner, group) oldraask = umask(complmode)	Unmount a file system Flush all cached blocks to the disk Change the working directory Change the root directory Change a file's protection bits Get the cailer's uid Get the caller's gid Set the caller's uid Set the caller's gid Change a file's owner and group Change the mode mask

Figure 1-9. The MINIX system calls. The return code s is -1 if an error has occurred; fd is a file descriptor; and n is a byte count. The other return codes are what the name suggests.