## **Linux System Call Table**

The following table lists the system calls for the Linux 2.2 kernel. It could also be thought of as an API for the interface between user space and kernel space. My motivation for making this table was to make programming in assembly language easier when using only system calls and not the C library (for more information on this topic, go to <a href="http://www.linuxassembly.org">http://www.linuxassembly.org</a>). On the left are the numbers of the system calls. This number will be put in register %eax. On the right of the table are the types of values to be put into the remaining registers before calling the software interrupt 'int 0x80'. After each syscall, an integer is returned in %eax.

For convenience, links go from the "Name" column to the man page for most of the system calls. Links to the kernel source file where each system call is located are linked to in the column labelled "Source". (You can also <u>download</u> a version of this page which has links directly to the source that is installed on your system.) Links to definitions are provided for the parameters that are typedefs or structs.

%eax	Name	Source	%ebx	%ecx	%edx	%esi	%edi
1	sys_exit	kernel/exit.c	int	-	-	-	-
2	sys fork	arch/i386/kernel/process.c	struct pt regs	-	-	-	-
3	sys read	fs/read_write.c	unsigned int	char *	size t	-	-
4	sys_write	fs/read_write.c	unsigned int	const char *	size_t	-	
5	sys open	fs/open.c	const char *	int	int	-	-
6	sys close	fs/open.c	unsigned int	-	-	-	-
7	sys_waitpid	kernel/exit.c	pid_t	unsigned int *	int	-	
8	sys creat	fs/open.c	const char *	int	-	-	-
9	sys link	fs/namei.c	const char *	const char *	-	-	-
10	sys_unlink	fs/namei.c	const char *	-	-	-	-
11	sys execve	arch/i386/kernel/process.c	struct pt regs	-	-	-	-
12	sys chdir	fs/open.c	const char *	-	-	-	-
13	sys_time	kernel/time.c	int *	-	-	-	-
14	sys mknod	fs/namei.c	const char *	int	dev t	-	-
15	sys chmod	fs/open.c	const char *	mode t	-	-	-
16	sys_lchown	fs/open.c	const char *	uid_t	gid_t	-	-
18	sys stat	fs/stat.c	char *	struct old kernel stat	-	-	-

=	5	1		/	/	1	
				*			
19	sys lseek	fs/read_write.c	unsigned int	off t	unsigned int	-	-
20	sys getpid	kernel/sched.c	-	-	-	-	-
21	sys mount	fs/super.c	char *	char *	char *	-	-
22	sys_oldumount	fs/super.c	char *	-	-	-	-
23	sys setuid	kernel/sys.c	uid_t	-	-	-	-
24	sys_getuid	kernel/sched.c	-	-	-	-	-
25	sys stime	kernel/time.c	int *	-	-	-	-
26	sys_ptrace	arch/i386/kernel/ptrace.c	long	long	long	long	-
27	sys_alarm	kernel/sched.c	unsigned int	-	-	-	-
28	sys fstat	fs/stat.c	unsigned int	struct old kernel stat	-	-	-
29	sys pause	arch/i386/kernel/sys i386.c					-
30	sys utime	fs/open.c	char *	struct utimbuf *	-	-	-
33	sys_access	fs/open.c	const char *	int	-	-	-
34	sys nice	kernel/sched.c	int			-	
36	sys sync	fs/buffer.c	-	-	-	-	-
37	sys_kill	kernel/signal.c	int	int	-	-	-
38	sys rename	fs/namei.c	const char *	const char *	-	-	-
39	sys mkdir	fs/namei.c	const char *	int	-	-	-
40	sys_rmdir	fs/namei.c	const char *	-	-	-	-
41	sys dup	fs/fcntl.c	unsigned int	-	-	-	-
42	sys pipe	arch/i386/kernel/sys i386.c	unsigned long *	-	-	-	-
43	sys_times	kernel/sys.c	struct tms *	-	-	-	-
45	<u>sys brk</u>	mm/mmap.c	unsigned long	-	-	-	-
46	sys setgid	kernel/sys.c	gid t	-	-	-	-
47	sys_getgid	kernel/sched.c	-	-	-	-	-

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48	sys_signal	kernel/signal.c	int	sighandler t	-	-	-
49	sys geteuid	kernel/sched.c	-	-	-	-	-
50	sys getegid	kernel/sched.c	-	-	-	-	-
51	sys acct	kernel/acct.c	const char *	-	-	-	-
52	sys umount	fs/super.c	char *	int	-	-	-
54	sys_ioctl	fs/ioctl.c	unsigned int	unsig ned int	unsigned long	-	-
55	sys_fcntl	fs/fcntl.c	unsigned int	unsigned int	unsigned long	-	-
57	sys setpgid	kernel/sys.c	<u>pid_t</u>	<u>pid t</u>	-	-	-
59	sys_olduname	arch/i386/kernel/sys_i386.c	struct oldold_utsname *	-	-	-	-
60	sys_umask	kernel/sys.c	int	-	-	-	-
61	sys chroot	fs/open.c	const char *	-	-	-	-
62	sys_ustat	fs/super.c	dev_t	struct ustat *	-	-	-
63	sys_dup2	fs/fcntl.c	unsigned int	unsigned int	-	-	-
64	sys getppid	kernel/sched.c	-	-	-	-	-
65	sys_getngrp	kernel/sys.c	-	-	-	-	-
66	sys_setsid	kernel/sys.c	-	-	-	-	-
67	sys sigaction	arch/i386/kernel/signal.c	int	const struct old sigaction *	struct old sigaction *	-	-
68	sys sgetmask	kernel/signal.c	-	-	-	-	-
69	<u>sys_ssetmask</u>	kernel/signal.c	int	-	-	-	-
70	sys_setreuid	kernel/sys.c	uid_t	uid_t	-	-	-
71	sys setregid	kernel/sys.c	gid t	gid t	-	-	-
72	sys sigsuspend	arch/i386/kernel/signal.c	int	int	old sigset t	-	-
73	sys_signending	kernel/signal.c	old_sigset_t *	-	-	-	-
74	sys sethostname	kernel/sys.c	char *	int	-	-	-
75	sys setrlimit	kernel/sys.c	unsigned int	struct rlimit *	-	-	-
76	sys_getrlimit	kernel/sys.c	unsigned int	struct rlimit *		-	-

77	sys getrusage	kernel/sys.c	int	struct rusage *	-	-	-
78	sys gettimeofday	kernel/time.c	struct timeval *	struct timezone *	-	-	-
79	sys settimeofday	kernel/time.c	struct timeval *	struct timezone *	-	-	-
80	sys getgroups	kernel/sys.c	int	gid_t*	-	-	-
81	sys setgroups	kernel/sys.c	int	gid t*	-	-	-
82	old_select	arch/i386/kernel/sys_i386.c	struct sel arg struct *	-	-	-	-
83	sys_symlink	fs/namei.c	const char *	const char *	-	-	-
84	sys lstat	fs/stat.c	char *	struct old kernel stat	-	-	-
85	sys readlink	fs/stat.c	const char *	char *	int	-	-
86	sys uselib	fs/exec.c	const char *	-	-	-	-
87	sys_swapon	mm/swapfile.c	const char *	int	-	-	-
88	sys reboot	kernel/sys.c	int	int	int	void *	-
89	old_readdir	fs/readdir.c	unsigned int	void *	unsigned int	-	-
90	old_mmap	arch/i386/kernel/sys_i386.c	struct mmap_arg_struct *	-	-	-	-
91	sys_munmap	mm/mmap.c	unsigned long	size_t	-	-	-
92	sys truncate	fs/open.c	const char *	unsigned long	-	-	-
93	sys ftruncate	fs/open.c	unsigned int	unsigned long	-	-	-
94	sys_fchmod	fs/open.c	unsigned int	mode_t	-	-	-
95	sys fchown	fs/open.c	unsigned int	uid t	gid t	-	-
96	sys getpriority	kernel/sys.c	int	int	-	-	-
97	sys_setpriority	kernel/sys.c	int	int	int	-	-
99	sys statfs	fs/open.c	const char *	struct statfs *	-	-	-
100	sys fstatfs	fs/open.c	unsigned int	struct statfs *	-	-	-
101	sys_ioperm	arch/i386/kernel/ioport.c	unsigned long	unsigned long	int	-	-
102	sys socketcall	net/socket.c	int	unsigned long *	-	-	-

103	sys_syslog	kernel/printk.c	int	char *	int	-	-
104	sys setitimer	kernel/itimer.c	int	struct itimerval *	struct itimerval *	-	-
105	sys getitimer	kernel/itimer.c	int	struct itimerval *	-	-	-
106	sys_newstat	fs/stat.c	char *	struct stat *	-	-	-
107	sys_newlstat	fs/stat.c	char *	struct stat *	-	-	-
108	sys_newfstat	fs/stat.c	unsigned int	struct stat *	-	-	-
109	sys_uname_	arch/i386/kernel/sys_i386.c	struct old_utsname *	-	-	-	-
110	sys iopl	arch/i386/kernel/ioport.c	unsigned long	-	-	-	-
111	sys_vhangup	fs/open.c	-	-	-	-	-
112	sys_idle	arch/i386/kernel/process.c	-	-	-	-	-
113	sys vm86old	arch/i386/kernel/vm86.c	unsigned long	struct vm86plus struct *	-	-	-
114	sys wait4	kernel/exit.c	pid t	unsigned long *	int options	struct rusage *	-
115	sys swapoff	mm/swapfile.c	const char *	-	-	-	-
116	sys_sysinfo	kernel/info.c	struct sysinfo *	-	-	-	-
117	sys_ipc <u>(*Note)</u>	arch/i386/kernel/sys i386.c	<u>uint</u>	int	int	int	void *
118	sys fsync	fs/buffer.c	unsigned int	-	-	-	-
119	sys_sigreturn	arch/i386/kernel/signal.c	unsigned long	-	-	-	-
120	sys clone	arch/i386/kernel/process.c	struct pt regs	-	-	-	-
121	sys setdomainname	kernel/sys.c	char *	int	-	-	-
122	sys_newuname	kernel/sys.c	struct new_utsname *	-	-	-	-
123	sys modify ldt	arch/i386/kernel/ldt.c	int	void *	unsigned long	-	-
124	sys adjtimex	kernel/time.c	struct timex *	-	-	-	-
125	sys_mprotect	mm/mprotect.c	unsigned long	size_t	unsigned long	-	-
126	sys sigprocmask	kernel/signal.c	int	old sigset t*	old sigset t*	-	-
127	sys create module	kernel/module.c	const char *	size t	-	-	-
128	sys_init_module	kernel/module.c	const char *	struct module *	-	-	-

129	sys delete module	kernel/module.c	const char *	-	-	-	-
130	sys get kernel syms	kernel/module.c	struct kernel sym *	-	-	-	-
131	sys_quotactl	fs/dquot.c	int	const char *	int	caddr t	-
132	sys_getpgid	kernel/sys.c	pid_t	-	-	-	-
133	sys fchdir	fs/open.c	unsigned int	-	-	-	-
134	sys bdflush	fs/buffer.c	int	long	-	-	-
135	sys_sysfs	fs/super.c	int	unsigned long	unsigned long	-	-
136	sys personality	kernel/exec_domain.c	unsigned long	-	-	-	-
138	sys_setfsuid	kernel/sys.c	uid_t	-	-	-	-
139	sys_setfsgid	kernel/sys.c	gid_t	-	-	-	-
140	sys llseek	fs/read write.c	unsigned int	unsigned long	unsigned long	<u>loff t*</u>	unsigned int
141	sys_getdents	fs/readdir.c	unsigned int	void *	unsigned int	-	-
142	sys_select	fs/select.c	int	fd_set *	fd_set *	fd_set *	struct timeval
143	sys_flock	fs/locks.c	unsigned int	unsigned int	-	-	-
144	sys msync	mm/filemap.c	unsigned long	<u>size t</u>	int	-	-
145	sys readv	fs/read write.c	unsigned long	const struct iovec *	unsigned long	-	-
146	sys_writev	fs/read_write.c	unsigned long	const struct iovec *	unsigned long	-	-
147	sys getsid	kernel/sys.c	pid t	-	-	-	-
148	sys fdatasync	fs/buffer.c	unsigned int	-	-	-	-
149	sys_sysctl	kernel/sysctl.c	structsysctl_args *	-	-	-	-
150	sys mlock	mm/mlock.c	unsigned long	size t	-	-	-
151	sys munlock	mm/mlock.c	unsigned long	size t	-	-	-
152	sys_mlockall	mm/mlock.c	int	-	-	-	-
153	sys munlockall	mm/mlock.c	-	-	-	-	-
154	sys sched setparam	kernel/sched.c	<u>pid_t</u>	struct sched param *	-	-	-
155	sys_sched_getparam	kernel/sched.c	pid_t	struct sched_param *	-	-	-

156	sys sched setscheduler	kernel/sched.c	pid_t	int	struct sched_param_*	-	-
157	sys sched getscheduler	kernel/sched.c	pid_t	-	-	-	-
158	sys sched yield	kernel/sched.c	-	-	-	-	-
159	sys sched get priority max	kernel/sched.c	int	-	-	-	-
160	sys sched get priority min	kernel/sched.c	int	-	-	-	-
161	sys sched rr get interval	kernel/sched.c	<u>pid t</u>	struct timespec *	-	-	-
162	sys nanosleep	kernel/sched.c	struct timespec *	struct timespec *	-	-	-
163	sys_mremap	mm/mremap.c.	unsigned long	unsigned long	unsigned long	unsigned long	-
164	sys_setresuid	kernel/sys.c	uid_t	uid_t	uid_t	-	_
165	sys getresuid	kernel/sys.c	uid t*	uid t*	uid t*	-	-
166	sys vm86	arch/i386/kernel/vm86.c	struct vm86 struct *	-	-	-	-
167	sys_query_module	kernel/module.c	const char *	int	char *	size_t	size_t*
168	sys poll	<u>fs/select.c</u>	struct pollfd *	unsigned int	long	-	-
169	sys nfsservctl	fs/filesystems.c	int	void *	void *	-	-
170	sys_setresgid	kernel/sys.c	gid_t	gid_t	gid_t	-	-
171	sys getresgid	kernel/sys.c	gid t*	gid t*	gid t*	-	_
172	sys pretl	kernel/sys.c	int	unsigned long	unsigned long	unsigned long	unsigned long
173	sys_rt_sigreturn	arch/i386/kernel/signal.c	unsigned long	-	-	-	-
174	sys_rt_sigaction	kernel/signal.c	int	const struct sigaction *	struct sigaction *	size t	-
175	sys_rt_sigprocmask	kernel/signal.c	int	sigset_t *	sigset_t *	size_t	-
176	sys_rt_sigpending	kernel/signal.c	sigset t*	size t	-	-	-
177	sys_rt_sigtimedwait	kernel/signal.c	const sigset t*	siginfo t*	const struct timespec *	<u>size_t</u>	-
178	sys_rt_sigqueueinfo	kernel/signal.c	int	int	siginfo t*	-	-
179	sys_rt_sigsuspend	arch/i386/kernel/signal.c	sigset_t *	size_t	-	-	-

180	sys_pread	fs/read_write.c	unsigned int	char *	size_t	<u>loff_t</u>	-
181	sys pwrite	fs/read_write.c	unsigned int	const char *	size t	<u>loff_t</u>	-
182	sys_chown_	fs/open.c	const char *	uid_t	gid_t	-	-
183	sys_getcwd	fs/dcache.c	char *	unsigned long	-	-	-
184	sys capget	kernel/capability.c	cap user header t	cap user data t	-	-	-
185	sys_capset	kernel/capability.c	cap user header t	const cap user data t	-	-	-
186	sys_sigaltstack	arch/i386/kernel/signal.c	const stack_t *	stack_t *	-	-	-
187	sys sendfile	mm/filemap.c	int	int	off t*	size t	-
190	sys_vfork	arch/i386/kernel/process.c	struct pt_regs	-	-	-	-

**Note for sys\_ipc** (117): this syscall takes six arguments, so it can't fit into the five registers %ebx - %edi; the last parameter (not shown) is of type 'long'. This syscall requires a special call method where a pointer is put in %ebx which points to an array containing the six arguments.

## **System Call Numbers**

For the numbers of the syscalls, look in arch/i386/kernel/entry. S for sys\_call\_table. The syscall numbers are offsets into that table. Several spots in the table are occupied by the syscall sys\_ni\_syscall. This is a placeholder that either replaces an obsolete syscall or reserves a spot for future syscalls.

Incidentally, the system calls are called from the function **system\_call** in the same file; in particular, they are called with the assembly instruction 'call \*SYMBOL\_NAME(sys\_call\_table)(,%eax,4)'. The part '\*SYMBOL\_NAME(sys\_call\_table)' just gets replaced by a symbol name in **sys\_call\_table**. **SYMBOL\_NAME** is a macro defined in <u>include/linux/linkage.h</u>, and it just replaces itself with its argument.

## **Typedefs**

Here are the typedef declarations in the prototypes above:

atomic_t	include/asm/atomic.h:	
	#ifdefSMP	
	typedef struct { volatile int counter; } atomic_t;	
	#else	
	typedef struct { int counter: } atomic_t:	

```
#endif
     caddr t
                   <u>include/asm/posix_types.h</u>:typedef char * __kernel_caddr_t;
                   linclude/linux/types.h:typedef __kernel_caddr_t caddr_t;
cap user header t include/linux/capability.h:
                   typedef struct __user_cap_header_struct {
                      u32 version;
                      int pid;
                     *cap_user_header_t;
 cap user data t
                   include/linux/capability.h:
                   typedef struct user cap data struct {
                      u32 effective;
                      u32 permitted;
                      u32 inheritable:
                     *cap_user_data_t;
                   include/asm/posix types.h:typedef long kernel clock t;
     clock_t
                   include/linux/types.h:typedef kernel clock t clock t;
                   include/asm/posix_types.h:typedef unsigned short __kernel_dev_t;
      dev_t
                   include/linux/types.h:typedef kernel dev_t dev_t;
                   include/linux/posix_types.h
      fd set
                   #define FD SETSIZE 1024
                   #define NFDBITS (8 * sizeof(unsigned long))
                   #define FDSET_LONGS ( FD_SETSIZE/ NFDBITS)
                   (==> FDSET_LONGS == 32)
                   typedef struct {
                      unsigned long fds_bits [ FDSET_LONGS];
                    } kernel fd set;
                   include/linux/types.h:typedef __kernel_fd_set fd_set;
                   include/asm/posix_types.h:typedef unsigned short kernel_gid_t;
      gid t
                   include/linux/types.h:typedef kernel gid t gid t;
                   include/asm/posix_types.h:typedef int __kernel_daddr_t;
  kernel daddr t
  kernel fsid t
                   include/asm/posix types.h:
                   typedef struct {
```

```
kernel fsid t;
kernel ino t
                 include/asm/posix types.h:typedef unsigned long kernel ino t;
                 include/asm/posix_types.h:typedef unsigned int __kernel_size_t;
_kernel_size_t
   loff t
                 include/asm/posix_types.h:typedef long long __kernel_loff_t;
                 include/linux/types.h:typedef kernel loff t loff t;
                 include/asm/posix_types.h:typedef unsigned short kernel mode t;
  mode_t
                 include/linux/types.h:typedef kernel mode t mode t;
                 include/asm/posix_types.h:typedef long __kernel_off_t; include/linux/types.h:typedef __kernel_off_t off_t;
    off_t
                 include/asm/signal.h:typedef unsigned long old_sigset_t;
old sigset t
                 include/asm/posix types.h:typedef int kernel pid t;
    pid t
                 include/linux/types.h:typedef __kernel_pid_t pid_t;
                 include/asm/signal.h:typedef void (*__sighandler_t)(int);
sighandler t
 siginfo_t
                 include/asm/siginfo.h:
                 #define SI MAX SIZE 128
                 #define SI_PAD_SIZE ((SI_MAX_SIZE/sizeof(int)) - 3)
                 (==> SI_PAD_SIZE == 29)
                 typedef struct siginfo {
                   int si_signo;
                   int si_errno;
                   int si_code;
                   union {
                      int _pad[SI_PAD_SIZE];
                      /* kill() */
                      struct {
                         pid t pid; /* sender's pid */
                         uid_t_uid; /* sender's uid */
                      } _kill;
```

int \_\_val[2];

```
/* POSIX.1b timers */
                    struct {
                       unsigned int _timer1;
                       unsigned int _timer2;
                    } _timer;
                    /* POSIX.1b signals */
                    struct {
                       pid t pid; /* sender's pid */
                       uid_t_uid; /* sender's uid */
                       sigval_t _sigval;
                    } _rt;
                    /* SIGCHLD */
                    struct {
                       pid_t_pid; /* which child */
                       uid t uid; /* sender's uid */
                       int_status; /* exit code */
                       clock t _utime;
                       clock t stime;
                    } _sigchld;
                    /* SIGILL, SIGFPE, SIGSEGV, SIGBUS */
                    struct {
                       void *_addr; /* faulting insn/memory ref. */
                    } _sigfault;
                    /* SIGPOLL */
                    struct {
                       int_band; /* POLL_IN, POLL_OUT, POLL_MSG */
                       int fd;
                    } _sigpoll;
                 } _sifields;
                } siginfo_t;
sigset_t
               include/asm/signal.h:typedef unsigned long sigset t;
```

include/asm/posix\_types.h:typedef unsigned int kernel\_size\_t:

size\_t

	include/linux/types.h:typedefkernel_size_t size_t;
ssize_t	include/asm/posix_types.h:typedef intkernel_ssize_t; include/linux/types.h:typedefkernel_ssize_t ssize_t;
stack_t	<pre>include/asm/signal.h: typedef struct sigaltstack {   void *ss_sp;   int ss_flags;   size t ss_size; } stack_t;</pre>
suseconds_t	include/asm/posix_types.h:typedef longkernel_suseconds_t; include/linux/types.h:typedefkernel_suseconds_t suseconds_t;
time_t	include/asm/posix_types.h:typedef longkernel_time_t; include/linux/types.h:typedefkernel_time_t time_t;
uid_t	<pre>include/asm/posix_types.h:typedef unsigned shortkernel_uid_t; include/linux/types.h:typedefkernel_uid_t uid_t;</pre>
uint	include/linux/types.h:typedef unsigned int uint;
u32	include/asm/types.h:typedef unsigned intu32;

## Structs

Here are the struct declarations for the table at the top:

1	
exception_table_entry	include/linux/module.h:
	struct exception_table_entry {
	unsigned long insn, fixup;
	<b>}</b> ;
iovec	include/linux/uio.h:
	struct iovec {
	void *iov_base;
	<u>kernel_size_t</u> iov_len; };

itimerval	include/linux/time.h:
	struct itimerval {
	struct timeval it_interval; /* timer interval */
	struct timeval it_value; /* current value */
	<b> </b> };
kernel_sym	include/linux/module.h:
_ ·	struct kernel_sym {
	unsigned long value;
	char name[60];
	};
mmon ova struct	arch/i386/kernel/sys_i386.c:
mmap_arg_struct	struct mmap_arg_struct {
	unsigned long addr;
	unsigned long addi, unsigned long len;
	unsigned long prot;
	unsigned long flags;
	unsigned long fd; unsigned long offset;
	unsigned folig offset,
	[ <del>]</del> ;
module	include/linux/module.h:
	struct module {
	unsigned long size_of_struct; /* sizeof(module) */
	struct module *next;
	const char *name;
	unsigned long size;
	union {
	atomic_t usecount;
	long pad;
	} uc;
	unsigned long flags; /* AUTOCLEAN et al */
	unsigned nsyms;
	unsigned ndeps;
	struct module_symbol *syms;
	struct module ref*deps:

	<pre>struct module_ref *refs; int (*init)(void); void (*cleanup)(void); const struct exc eption_table_entry_ *ex_table_start; const struct exception_table_entry_ *ex_table_end; /* Members past this point are extensions to the basic module support and are optional. Use mod_opt_member() to examine t hem. */ const struct module_persist *persist_start; const struct module_persist *persist_end; int (*can_unload)(void); };</pre>
module_persist	include/linux/module.h: struct module_persist; /* yes, it's empty */
module_ref	<pre>include/linux/module.h: struct module_ref {     struct module *dep; /* "parent" pointer */     struct module *ref; /* "child" pointer */     struct module_ref *next_ref; };</pre>
module_symbol	<pre>include/linux/module.h: struct module_symbol {    unsigned long value;    const char *name; };</pre>
new_utsname	include/linux/utsname.h: struct new_utsname {     char sysname[65];     char nodename[65];     char release[65];     char version[65];     char machine[65];     char domainname[65]; };
old_kernel_stat	include/asm/stat.h:

	structold_kernel_stat {
	unsigned short st_dev;
	unsigned short st_ino;
	unsigned short st_mode;
	unsigned short st_nlink;
	unsigned short st_uid;
	unsigned short st_gid;
	unsigned short st_rdev;
	unsigned long st_size;
	unsigned long st_atime;
	unsigned long st_mtime;
	unsigned long st_ctime;
	<b> </b> };
oldold_utsname	include/linux/utsname.h:
014014_448144114	struct oldold_utsname {
	char sysname[9];
	char systame[7]; char nodename[9];
	char release[9];
	char rerease[7]; char version[9];
	char version[9];
	};
11	
old_sigaction	include/asm/signal.h
	struct old_sigaction {
	<u>sighandler_t</u> sa_handler;
	old sigset t sa_mask;
	unsigned long sa_flags;
	void (*sa_restorer)(void);
	<b> </b> };
old_utsname	include/linux/utsname.h:
	struct old_utsname {
	char sysname[65];
	char nodename[65];
	char release[65];
	char version[65];
	char machine[65]:

pollfd   include/asm/poll.h:   struct pollfd {   int fd;   short events;   short revents;   short revents;   };     pt_regs     include/asm/ptrace.h:   struct pt_regs {   long ebx;   long ecx;   long edx;   long edi;   long ebp;   long eax;   int xds;   int xes;   long orig_eax;   long eip;   int xes;   long eip;   int xes;   long eflags;   long esp;   int xes;   long egp;   int xes;   long eng esp;   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };   rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };   rusage   include/linux/resource.h:		
struct pollfd {     int fd;     short events;     short revents; };  pt_regs  include/asm/ptrace.h:     struct pt_regs {     long ebx;     long ecx;     long edi;     long edi;     long eax;     int xds;     int xes;     long orig_eax;     long eip;     int xcs;     long eflags;     long esp;     int xss; };  revectored_struct  include/asm/vm86.h:     struct revectored_struct {         unsigned longmap[8]; };  rlimit  include/linux/resource.h:     struct rlimit {         long rlim_cur;         long rlim_max; };		<b>}</b> ;
struct pollfd {     int fd;     short events;     short revents; };  pt_regs  include/asm/ptrace.h:     struct pt_regs {     long ebx;     long ecx;     long edi;     long edi;     long eax;     int xds;     int xes;     long orig_eax;     long eip;     int xcs;     long eflags;     long esp;     int xss; };  revectored_struct  include/asm/vm86.h:     struct revectored_struct {         unsigned longmap[8]; };  rlimit  include/linux/resource.h:     struct rlimit {         long rlim_cur;         long rlim_max; };	pollfd	include/asm/poll.h:
int fd; short events; short revents; };  pt_regs  include/asm/ptrace.h: struct pt_regs {     long ebx;     long ecx;     long edi;     long ebp;     long eax;     int xds;     int xds;     int xes;     long erigeax;     long eip;     int xcs;     long eflags;     long esp;     int xss; };  revectored_struct  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rilimit {     long rlim_cur;     long rlim_max;     };	_	
short revents; };  pt_regs  include/asm/ptrace.h: struct pt_regs {     long ebx;     long ecx;     long esi;     long edi;     long ebp;     long eax;     int xds;     int xes;     long orig_eax;     long eip;     int xcs;     long eflags;     long esp;     int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
pt_regs   include/asm/ptrace.h:   struct pt_regs {   long ebx;   long ecx;   long edx;   long edi;   long edi;   long ebp;   long eax;   int xds;   int xes;   long orig_eax;   long eip;   int xcs;   long eflags;   long esp;   int xs s;   };    revectored_struct   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };    rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };		short events;
struct pt_regs {     long ebx;     long ecx;     long edi;     long edi;     long ebp;     long eax;     int xds;     int xes;     long orig_eax;     long eip;     int xcs;     long eflags;     long esp;     int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		short revents;
struct pt_regs {     long ebx;     long ecx;     long edi;     long edi;     long ebp;     long eax;     int xds;     int xes;     long orig_eax;     long eip;     int xcs;     long eflags;     long esp;     int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		<b> </b> };
long ebx; long ecx; long edx; long esi; long edi; long ebp; long eax; int xds; int xes; long orig_eax; long eip; int xcs; long eflags; long esp; int xs s; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };	pt_regs	include/asm/ptrace.h:
long ecx;   long edx;   long esi;   long edi;   long edi;   long ebp;   long eax;   int xds;   int xes;   long orig_eax;   long eip;   int xcs;   long eflags;   long esp;   int xss;   };     revectored_struct   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };     rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };		
long edx;   long esi;   long edi;   long ebp;   long eax;   int xds;   int xes;   long orig_eax;   long eip;   int xcs;   long eflags;   long esp;   int xss;   long esp;   int xss;   };     revectored_struct   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };     rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };		
long esi;   long edi;   long ebp;   long eax;   int xds;   int xes;   long orig_eax;   long eip;   int xcs;   long eflags;   long esp;   int xss;   };   revectored_struct   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };   rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };   };		
long edi; long ebp; long eax; int xds; int xes; long orig_eax; long eip; int xcs; long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max;     };		
long ebp; long eax; int xds; int xes; long orig_eax; long eip; int xcs; long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
long eax;   int xds;   int xes;   long orig_eax;   long eip;   int xcs;   long eflags;   long esp;   int xs s;   };   revectored_struct   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };   rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };   };		
int xds; int xes; long orig_eax; long eip; int xcs; long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
<pre>int xes; long orig_eax; long eip; int xcs; long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };</pre>		1
long orig_eax;   long eip;   int xcs;   long eflags;   long esp;   int xs s;   };   revectored_struct   include/asm/vm86.h:   struct revectored_struct {   unsigned longmap[8];   };   rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };		
long eip; int xcs; long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
<pre>int xcs; long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };</pre>		
long eflags; long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
long esp; int xss; };  revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
<pre>int xss; };  revectored_struct include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };</pre>		
revectored_struct include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
revectored_struct  include/asm/vm86.h: struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
struct revectored_struct {     unsigned longmap[8]; };  rlimit  include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
unsigned longmap[8];    rlimit   include/linux/resource.h:   struct rlimit {   long rlim_cur;   long rlim_max;   };	revectored_struct	
rlimit include/linux/resource.h: struct rlimit {     long rlim_cur;     long rlim_max; };		
rlimit  include/linux/resource.h:  struct rlimit {   long rlim_cur;   long rlim_max; };		
struct rlimit {     long rlim_cur;     long rlim_max; };		
long rlim_cur; long rlim_max; };	rlimit	
long rlim_max; };		
};		
rusage include/linux/resource.h:		[];
	rusage	include/linux/resource.h:

	struct rusage {
	struct timeval ru_utime; /* user time used */
	struct timeval ru_stime; /* system time used */
	long ru_maxrss; /* maximum resident set size */
	long ru_ixrss; /* integral shared memory size */
	long ru_idrss; /* integral unshared data size */
	long ru_isrss; /* integral unshared stack size */
	long ru_minflt; /* page reclaims */
	long ru_majflt; /* page faults */
	long ru_nswap; /* swaps */
	long ru_inblock; /* block input operations */
	long ru_oublock; /* block output operations */
	long ru_msgsnd; /* messæges sent */
	long ru_msgrcv; /* messages received */
	long ru_nsignals; /* signals received */
	long ru_nvcsw; /* voluntary context switches */
	long ru_nivcsw; /* involuntary " */
	<b> </b> };
sched_param	include/linux/sched.h:
	struct sched_param {
	int sched_priority;
	<b> </b> };
sel_arg_struct	arch/i386/kernel/svs_i386.c:
	struct sel_arg_struct {
	unsigned long n;
	fd_set *inp, *outp, *exp;
	struct timeval*tvp;
	<b> </b> };
sigaction	include/asm/signal.h:
_	struct sigaction {
	sighandler t sa_handler;
	unsigned long sa_flags;
	void (*sa_restorer)(void);
	sigset_t sa_mask; /* mask last for extensibility */
	};

stat  include/asm/stat.h: struct stat {     unsigned short st_dev;     unsigned short st_mode;     unsigned short st_mode;     unsigned short st_mink;     unsigned short st_uid;     unsigned short st_gid;     unsigned short st_dev;     unsigned short st_gid;     unsigned short st_dev;     unsigned short st_dev;     unsigned long st_size;     unsigned long st_blocks;     unsigned long st_blocks;     unsigned long st_mime;     unsigned long st_mime;     unsigned long unused1;     unsigned long unused2;     unsigned long unused3;     unsigned long unused4;     unsigned long unused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bfree;     long f_blocks;     long f_files;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6];     ];  _sysctl_args  include/linux/svsctl h		
unsigned short st_dev; unsigned shortpad1; unsigned long st_ino; unsigned short st_mlink; unsigned short st_mlink; unsigned short st_gid; unsigned short st_gid; unsigned shortpad2; unsigned long st_size; unsigned long st_blksize; unsigned long st_blksize; unsigned long st_blksize; unsigned long st_atime; unsigned long st_mtime; unsigned long st_mtime; unsigned longunused1; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused4; unsigned longunused5;  statfs  struct staffs {     long f_type;     long f_bsize;     long f_bsize;     long f_blocks;     long f_bfree;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };	stat	
unsigned shortpad1; unsigned long st_ino; unsigned short st_mode; unsigned short st_mink; unsigned short st_uid; unsigned short st_gid; unsigned short st_rdev; unsigned shortpad2; unsigned long st_blocks; unsigned long st_blocks; unsigned long st_blocks; unsigned long st_mime; unsigned longunused1; unsigned longunused2; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  struct statfs {     long f_bsize;     long f_blocks;     long f_blocks;     long f_ffree;     long f_ffree;     long f_ffree;     long f_ffree;    kernel_fsid_t_f_fsid;     long f_namelen;     long f_spare[6]; };		struct stat {
unsigned long st_ino; unsigned short st_mode; unsigned short st_mlink; unsigned short st_uid; unsigned short st_gid; unsigned short st_rdev; unsigned long st_old; unsigned long st_size; unsigned long st_size; unsigned long st_blocks; unsigned long st_atime; unsigned long st_atime; unsigned long st_mitme; unsigned longunused1; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_bize;     long f_blocks;     long f_blocks;     long f_blocks;     long f_ffree;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		unsigned short st_dev;
unsigned short st_mode; unsigned short st_uid; unsigned short st_gid; unsigned short st_gid; unsigned short st_rdev; unsigned short st_rdev; unsigned long st_oblex; unsigned long st_blksize; unsigned long st_blocks; unsigned long st_attime; unsigned long st_mtime; unsigned longunused1; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bree;     long f_bavail;     long f_ffree;    kernel_fsid_tf_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned short st_uid; unsigned short st_gid; unsigned short st_rdev; unsigned shortpad2; unsigned long st_size; unsigned long st_blksize; unsigned long st_blksize; unsigned long st_atime; unsigned long st_mtime; unsigned longunused1; unsigned longunused2; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  struct staffs {     long f_type;     long f_blocks;     long f_bree;     long f_bavail;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		
unsigned short st_uid; unsigned short st_gid; unsigned short st_rdev; unsigned shortpad2; unsigned long st_size; unsigned long st_blksize; unsigned long st_blksize; unsigned long st_atime; unsigned longunused1; unsigned longunused2; unsigned long st_ctime; unsigned longunused3; unsigned longunused4; unsigned longunused5;  staffs  include/asm/staffs.h: struct staffs {     long f_type;     long f_blocks;     long f_bree;     long f_bree;     long f_bree;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		_ :
unsigned short st_gid; unsigned short st_rdev; unsigned shortpad2; unsigned long st_size; unsigned long st_blksize; unsigned long st_blksize; unsigned long st_blocks; unsigned long st_blocks; unsigned long st_mtime; unsigned longunused1; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_blocks;     long f_files;     long f_files;     long f_firee;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned short st_rdev; unsigned shortpad2; unsigned long st_size; unsigned long st_blksize; unsigned long st_blocks; unsigned long st_thime; unsigned longunused1; unsigned longunused2; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_bree;     long f_bree;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		
unsigned shortpad2; unsigned long st_size; unsigned long st_blksize; unsigned long st_blocks; unsigned long st_atime; unsigned longunused1; unsigned longunused2; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bleck;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		-
unsigned long st_size; unsigned long st_blksize; unsigned long st_blocks; unsigned long st_atime; unsigned longunused1; unsigned longunused2; unsigned long st_ctime; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bfree;     long f_fles;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		
unsigned long st_blksize; unsigned long st_blocks; unsigned long st_atime; unsigned longunused1; unsigned long st_mtime; unsigned longunused2; unsigned longunused3; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_flee;     long f_flee;     long f_files;     long f_free;    kernel_fsid_t f_fsid;     long f_spare[6];     ];		1
unsigned long st_blocks; unsigned long st_atime; unsigned longunused1; unsigned long st_mtime; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bree;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned long st_atime; unsigned longunused1; unsigned long st_mtime; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_blocks;     long f_ffiee;     long f_ffiee;     long f_ffree;    kernel_fsid_t_f_fsid;     long f_spare[6]; };		
unsigned longunused1; unsigned long st_mtime; unsigned longunused2; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bavail;     long f_ffree;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		
unsigned long st_mtime; unsigned longunused2; unsigned long st_ctime; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bfree;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned longunused2; unsigned long st_ctime; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_bsize;     long f_blocks;     long f_bfree;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_spare[6]; };		
unsigned long st_ctime; unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_blocks;     long f_blocks;     long f_bree;     long f_files;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned longunused3; unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_bsize;     long f_blocks;     long f_bfree;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned longunused4; unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_bsize;     long f_blocks;     long f_bfree;     long f_files;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
unsigned longunused5;  statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_bsize;     long f_blocks;     long f_bfree;     long f_files;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
statfs  include/asm/statfs.h: struct statfs {     long f_type;     long f_bsize;     long f_blocks;     long f_bfree;     long f_files;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		
struct statfs {     long f_type;     long f_bsize;     long f_blocks;     long f_bfree;     long f_files;     long f_ffree;    kernel_fsid_t f_fsid;     long f_namelen;     long f_spare[6]; };		unsigned longunused5;
<pre>long f_type; long f_bsize; long f_blocks; long f_bfree; long f_bavail; long f_files; long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };</pre>	statfs	include/asm/statfs.h:
<pre>long f_bsize; long f_blocks; long f_bfree; long f_bavail; long f_files; long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };</pre>		
<pre>long f_blocks; long f_bfree; long f_bavail; long f_files; long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };</pre>		long f_type;
long f_bfree; long f_bavail; long f_files; long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };		
long f_bavail; long f_files; long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };		long f_blocks;
long f_files; long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };		long f_bfree;
<pre>long f_ffree;kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };</pre>		long f_bavail;
kernel_fsid_t f_fsid; long f_namelen; long f_spare[6]; };		long f_files;
long f_namelen; long f_spare[6]; };		
long f_spare[6]; };		
};		
		long f_spare[6];
sysctl_args include/linux/sysctl.h		[};
	sysctl_args	include/linux/svscfl.h

	structsysctl_args {
	int *name;
	int nlen;
	void *oldval;
	size t *oldlenp;
	void *newval;
	size t newlen;
	unsigned longunused[4];
	<b> </b> };
sysinfo	include/linux/kernel.h:
	struct sysinfo {
	long uptime; /* Seconds since boot */
	unsigned long loads[3]; /* 1, 5, and 15 minute load averages */
	unsigned long totalram; /* Total usable main memory size */
	unsigned long freeram; /* Available memory size */
	unsigned long sharedram; /* Amount of shared memory */
	unsigned long bufferram; /* Memory used by buffers */
	unsigned long totalswap; /* Total swap space size */
	unsigned long freeswap; /* swap space still available */
	unsigned short procs; /* Number of current processes */
	char _f[22]; /* Pads structure to 64 bytes */
	<b>}</b> ;
timex	include/linux/timex.h:
	struct timex {
	unsigned int modes; /* mode selector */
	long offset; /* time offset (usec) */
	long freq; /* frequency offset (scaled ppm) */
	long maxerror; /* maximum error (usec) */
	long esterror; /* estimated error (usec) */
	int status; /* clock command/status */
	long constant; /* pll time constant */
	long precision; /* clock precision (usec) (read only) */
	long tolerance; /* clock frequency tolerance (ppm)

\* (read only)
\*/

struct timeval time: /\* (read only) \*/

	long tick; /* (modified) usecs between clock ticks */ long ppsfreq; /* pps frequency (scaled ppm) (ro) */ long jitter; /* pps jitter (us) (ro) */ int shift; /* interval duration (s) (shift) (ro) */ long stabil; /* pps stability (scaled ppm) (ro) */ long jitcnt; /* jitter limit exceeded (ro) */ long calcnt; /* calibration intervals (ro) */ long errcnt; /* calibration errors (ro) */ long stbcnt; /* stability limit exceeded (ro) */ int :32; int :32; int :32; int :32;
	int :32; int :32; int :32; int :32;
	int :32; int :32; int :32;
	<b> </b> };
timespec	include/linux/time.h:
	struct timespec {
	time t tv_sec; /* seconds */
	long tv_nsec; /* nanoseconds */
	<b>}</b> ;
timeval	include/linux/time.h:
	struct timeval {
	time t tv_sec; /* seconds */
	<pre>suseconds t tv_usec; /* microseconds */ };</pre>
timezone	include/linux/time.h:
	struct timezone {     int tz_minuteswest; /* minutes west of Greenwich */
	int tz_dsttime; /* type of dst correction */
	};
tms	include/linux/times.h
	struct tms {
	clock t tms_utime;
	clock_t tms_stime;
	<u>clock t</u> tms_cutime;
	clock t tms estime:

	<b>}</b> ;
ustat	include/linux/types.h:
	struct ustat {
	<u>kernel daddr t f_tfree;</u>
	<u>kernel ino t</u> f_tinode;
	char f_fname[6];
	char f_fpack[6];
	<b> </b> };
utimbuf	include/linux/utime.h:
	struct utimbuf {
	time_t actime;
	time t modtime;
	<b> </b> };
vm86plus_info_struct	include/asm/vm86.h:
	struct vm86plus_info_struct {
	unsigned long force_return_for_pic:1;
	unsigned long vm86dbg_active:1;
	unsigned long vm86dbg_TFpendig:1;
	unsigned long unused:28;
	unsigned long is_vm86pus:1;
	unsigned char vm86dbg_intxxtab[32];
	<b>}</b> ;
vm86plus_struct	include/asm/vm86.h:
	struct vm86plus_struct {
	struct vm86_regs regs;
	unsigned long flags;
	unsigned long screen_bitmap;
	unsigned long cpu_type;
	struct revectored_struct int_revectored;
	struct revectored struct int21_revectored;
	struct vm86plus_info_struct vm86plus;
	<b>}</b> ;
vm86_regs	include/asm/vm86.h:
	struct vm86_regs {
	/* normal regs. with special meaning for the segment descriptors.

\*/

	long ebx;
	long ecx;
	long edx;
	long esi;
	long edi;
	long ebp;
	long eax;
	longnull_ds;
	longnull_es;
	longnull_fs;
	longnull_gs;
	long orig_eax;
	long eip;
	unsigned short cs,csh;
	long eflags;
	long esp;
	unsigned short ss,ssh;
	/* these are specific to v86 mode: */
	unsigned short es,esh;
	unsigned short ds,dsh;
	unsigned short fs,fsh;
	unsigned short gs,gsh;
	};
vm86 struct	include/asm/vm86.h;
	struct vm86_struct {
	struct vm86_regs regs;
	unsigned long flags;
	unsigned long screen_bitmap;
	unsigned long cpu_type;
	struct revectored_struct int_revectored;
	struct revectored struct int21_revectored;