```
  1: #ifndef _PROC_IPC_SHM_H    /* wrapper symbol for kernel use */
  2: #define _PROC_IPC_SHM_H    /* subject to change without notice */
...
203:
204: #ifdef    _KERNEL
205:
206: /*
207:  * Macros to lock and unlock a kshmid_ds cell.
208:  * idp is a pointer to the kshmid_ds cell to be locked/unlocked.
209:  */
210: #define SHMID_LOCK(kshmp)    LOCK_PLMIN(&(kshmp)->kshm_lck)
211: #define SHMID_UNLOCK(kshmp, pl)    UNLOCK_PLMIN(&(kshmp)->kshm_lck, (pl))
212:
213: struct proc;
214: extern int     shmconv(int , struct kshmid_ds **);
215: extern void    shminit(void);
216: extern void    shmfork(struct proc *, struct proc *);
217: extern void    shmexit(struct proc *pp);
218: extern void    shmexec(struct proc *pp);
219:
220: #else
221:
222: #ifdef __STDC__
223:
224: void    *shmat(int, const void *, int);
225: int    shmctl(int, int, struct shmid_ds *);
226: int    shmdt(const void *);
227: int    shmget(key_t, size_t, int);
228:
229: #else
230:
231: int shmctl();
232: int shmget();
233: void *shmat();
234: int shmdt();
235:
236: #endif /* __STDC__ */
237:
238: #endif /* _KERNEL */
239:
240: #if defined(__cplusplus)
241:      }
242: #endif
243:
244: #endif /* _PROC_IPC_SHM_H */
```

```
  1: /* Copyright (C) 1995-1999, 2000, 2002 Free Software Foundation, Inc.
  2:    This file is part of the GNU C Library.
  3:
  4:    The GNU C Library is free software; you can redistribute it and/or
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  8:
  9:    The GNU C Library is distributed in the hope that it will be useful,
 10:    but WITHOUT ANY WARRANTY; without even the implied warranty of
 11:    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
 12:    Lesser General Public License for more details.
 13:
 14:    You should have received a copy of the GNU Lesser General Public
 15:    License along with the GNU C Library; if not, write to the Free
 16:    Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA
 17:    02111-1307 USA.  */
 18:
 19: #ifndef _SYS_SHM_H
 20: #define _SYS_SHM_H    1
 21:
 22: #include <features.h>
 23:
 24: #define __need_size_t
 25: #include <stddef.h>
 26:
 27: /* Get common definition of System V style IPC.  */
 28: #include <sys/ipc.h>
 29:
 30: /* Get system dependent definition of `struct shmid_ds' and more.  */
 31: #include <bits/shm.h>
 32:
 33: /* Define types required by the standard.  */
 34: #define __need_time_t
 35: #include <time.h>
 36:
 37: #ifdef __USE_XOPEN
 38: # ifndef __pid_t_defined
 39: typedef __pid_t pid_t;
 40: #  define __pid_t_defined
 41: # endif
 42: #endif    /* X/Open */
 43:
 44:
 45: __BEGIN_DECLS
 46:
 47: /* The following System V style IPC functions implement a shared memory
 48:    facility.  The definition is found in XPG4.2.  */
 49:
 50: /* Shared memory control operation.  */
 51: extern int shmctl (int __shmid, int __cmd, struct shmid_ds *__buf) __THROW;
 52:
 53: /* Get shared memory segment.  */
 54: extern int shmget (key_t __key, size_t __size, int __shmflg) __THROW;
 55:
 56: /* Attach shared memory segment.  */
 57: extern void *shmat (int __shmid, __const void *__shmaddr, int __shmflg)
 58:      __THROW;
 59:
 60: /* Detach shared memory segment.  */
 61: extern int shmdt (__const void *__shmaddr) __THROW;
 62:
 63: __END_DECLS
 64:
 65: #endif /* sys/shm.h */
```

(For readability, not all matches are indicated.)