

```
/* Semaphore Operations */

#ifdef __ANSI__

extern int okscre( char *name, int count, bit_field options, sema_id
                 *sid );
extern int oksdel( sema_id *sid );
extern int oksidt( char *name, node_id nid, sema_id *sid );
extern int oksemp( sema_id *sid, int time_out );
extern int oksemv( sema_id *sid );

#else

extern int okscre( );
extern int oksdel( );
extern int oksidt( );
extern int oksemp( );
extern int oksemv( );

#endif

#define sem_create okscre
#define sem_delete oksdel
#define sem_ident oksidt
#define sem_p oksemp
#define sem_v oksemv
```

```
/* Queue Operations */

#ifdef __ANSI__

extern int okqcre( char *name, int priv_buff, int max_buff, int length,
                 bit_field options, queue_id *qid );
extern int okqdel( queue_id *qid );
extern int okqidt( char *name, node_id nid, queue_id *qid );
extern int okqsnd( queue_id *qid, void *message, int length );
extern int okqurg( queue_id *qid, void *message, int length );
extern int okqbro( queue_id *qid, void *message, int length,
                 int *count );
extern int okqrcv( queue_id *qid, void *message, int time_out );
extern int okqflu( queue_id *qid, int *count );

#else

extern int okqcre( );
extern int okqdel( );
extern int okqidt( );
extern int okqsnd( );
extern int okqurg( );
extern int okqbro( );
extern int okqrcv( );
extern int okqflu( );

#endif

#define queue_create      okqcre
#define queue_delete      okqdel
#define queue_ident      okqidt
#define queue_send        okqsnd
#define queue_urgent      okqurg
#define queue_broadcast   okqbro
#define queue_receive     okqrcv
#define queue_flush       okqflu
```

```
/*    Event Operations    */

#ifdef __ANSI__
extern int okesnd( task_id *tid, bit_field event ) ;
extern int okercv( bit_field events, bit_field options, int timeout,
                  bit_field *events_caught ) ;
#else
extern int okesnd( ) ;
extern int okercv( ) ;
#endif

#define event_send      okesnd
#define event_receive   okercv
```

```
/* Exception operations */

#ifdef __ANSI__

extern int okxcat( void new_xhr(bit_field), bit_field mode,
                 void (*old_xhr)(bit_field), bit_field *old_mode ) ;
extern int okxsnd( task_id *tid, bit_field exceptions ) ;
extern void okxret( void ) ;

#else

extern int okxcat( ) ;
extern int okxsnd( ) ;
extern void okxret( ) ;

#endif

#define exceptions_catch      okxcat
#define exceptions_send      okxsnd
#define exceptions_return    okxret
```

```
/*    Clock Operations    */

#ifdef __ANSI__
extern int okcset( clock_buf *clock ) ;
extern int okcget( clock_buf *clock ) ;
extern int okctik( void ) ;
#else
extern int okcset( ) ;
extern int okcget( ) ;
extern int okctik( ) ;
#endif

#define clock_set    okcset
#define clock_get    okcget
#define clock_tick  okctik
```