INTRO(STHREAD) INTRO(STHREAD)

#### **NAME**

INTRO - Introduction to the Shore Threads Package

### **SYNOPSIS**

The Shore Thread Package (sthread) provides C++ style light-weight processes. It provides the following facilities (further described by documents referenced in the See Also section):

Threads

Mutexes

Conditional variables

Event semaphores

Asynchronous disk I/O

Asynchronous file I/O handlers

#### DESCRIPTION

The thread mechanism allows several threads of control to share the same address space. Each thread is represented by an instance of **sthread\_t** class. Once created, a thread is an independent entity with its own stack.

In a C++ program, the sthread initialization code is built into the library such it will execute before the **main()** function begins. The initialization code is responsible for spawning a **main\_thread**, such that, when the initialization function returns, it returns in the context of the **main\_thread**. This ensures that the program executes in a threaded environment from the beginning.

#### **ENVIRONMENT**

Sthread currently runs on the following processors/platforms:

DecStation 3100 and 5000 series (MIPS, Ultrix)

Intel Paragon (i860, OSF/1)

HP 700 series (HP-PA, HP-UX 8.0 and 9.0)

Sparcstation (SunOS 4.3.1, Solaris)

x86 (Linux, Solaris)

Silicon Graphics (Irix)

#### **ERRORS**

See errors(sthread)

### VERSION

This manual page applies to Version 2.0 of the Shore Storage Manager.

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SEE ALSO
```

 $sthread\_t(sthread)$ 

 $smutex\_t(sthread)$ 

 $scond\_t(sthread)$ 

sevsem\_t(sthread)

 $file\_handlers(sthread)$