

SCSL

Category: Math & Scientific Libraries

SCSL is a comprehensive collection of scientific and mathematical functions that have been optimized for use on the Altix systems such as Columbia. The libraries include optimization of basic linear algebra subprograms (BLAS), a linear algebra package, signal processing functions such as fast Fourier transforms (FFTs), and liner filtering operations and other basic solver functions. More information can be found through **man sctl**.

WARNING: Starting with ProPack 5, SCSL is no longer supported by SGI. Although SCSL is still available on Columbia (but not on Pleiades), users are recommended to use Intel MKL instead.

SCSL version(s) available on Columbia systems:

- sctl.1.5.0.0 (does not work properly with intel-comp.9.1.039)
- sctl.1.5.1.0
- sctl.1.5.1.1 (contains Scalapack in libsdsm.so)
- sctl.1.6.1.0

To use SCSL, link one of the following libraries:

```
-lsctl  
-lsctl_mp      (for multi-threaded programs)  
-lsctl_i8  
-lsctl_i8_mp
```

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