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Abstract. The objectives of the SSI project are (1) the development of a basic library of solutions and algorithms required for large scale scientific simulations, which have been developed separately in each field, and (2) its integration into a scalable software infrastructure.



Simple Interface for Library Collections (SILC) is an easy-to-use application framework that allows you to use various matrix computation libraries (e.g., BLAS/LAPACK, ScaLAPACK, and our Lis and FFTSS) in different kinds of computing environments (including desktop PCs, shared memory machines, clusters, and vector machines) in a language-independent manner.

You don't need to modify user programs when using alternative libraries and computing environments.



A user program in C for solving Ax = b in the SILC framework

silc_envelope_t A, b, x; /* prepare matrix A and vector b */ SILC_PUT("A", &A); SILC_PUT("b", &b); SILC_EXEC("x = A $\setminus b$ "); **SILC_GET**(&x, "x");

Benefits

SILC provides independence from libraries, environments, and programming languages. C, Fortran, Java, and Python are currently supported.



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