

CS 594 Homework #9

Usage and Appreciation of NetSolve/GridSolve

[NetSolve](#) allows remote invocation of software routines through C, Fortran and Matlab.

In this assignment, you will upload one of the routines from the BLAS from Netlib into a NetSolve server and use a C, Fortran and Matlab client to remotely invoke the routine.

You can download and install NetSolve and some of the BLAS from their respective web sites. I would like you to use the new experimental version of NetSolve, see <http://www.cs.utk.edu/~dongarra/WEB-PAGES/SPRING-2005/GridSolve.tgz>

The NetSolve agent is installed on torc0.w

I would like you to use this version of NetSolve, not the production version.

The BLAS collection can be found at: <http://www.netlib.org/blas/> for example <http://www.netlib.org/blas/dgemm.f> (you will probably need the routine LSAME as well).

As demonstration, you should show your codes of C or Fortran programs that use NetSolve/GridSolve to remotely invoke your BLAS' routine and a test that shows it working correctly. Fengguang Song will also be testing your server codes by executing them.

If you encounter problems with NetSolve/GridSolve contact Keith Seymour; seymour@cs.utk.edu .

	Routine name	NetSolve/GridSolve server should be installed on this machine
Matthew Lee Aldridge	DGEMM	Torc2
Andy Perkins	DSYMM	Torc3
Huadong Liu	DSYRK	Torc4
Ramkrishna Chakrabarty	DSYR2K	Torc5
Jon Scharff	DTRMM	Torc6
Sergei Shinkarev	DTRSM	Torc7
Jiayi Wu	DGEMV	Torc8
Yun Zhang	DSYMV	Torc9