Chapter 7

Installation and copyright

7.1 Installation

There are several different forms in which you might receive Meschach. To provide a shorthand for describing collections of files, the Unix convention of putting alternative letters in [...] will be used. (So, fred[123] means the collection fred1, fred2 and fred3.) Meschach is available over Internet/AARnet via netlib, or at the anonymous ftp site thrain.anu.edu.au in the directory pub/meschach. There are five .shar files: meschach[01234].shar (which contain the library itself), of which meschach0.shar contains basic documentation and machine dependent files for a number of machines. Of the meschach[1234].shar files, only meschach[12].shar are needed for the basic Meschach library; the third .shar file contains the sparse matrix routines, and the the fourth contains the routines for complex numbers, vectors and matrices. There is also this README file that you should get directly, or extract it from meschach0.shar.

If you need the old iterative routines, the file oldmeschach.shar contains the files conjgrad.c, arnoldi.c and lanczos.c.

To get the library from netlib,

mail netlib@research.att.com send all from c/meschach

There are a number of other netlib sites which mirror the main netlib sites. These include netlib@ornl.gov (Oak Ridge, TN, USA), netlib@nac.no (Oslo, Norway), ftp.cs.uow.edu.au (Wollongong, Australia; ftp only), netlib@nchc.edu.tw (Taiwan), elib.zib-berlin.de (Berlin, Germany; ftp only). (For anonymous ftp sites the directory containing the Meschach.shar files is pub/netlib/c/meschach or similar, possibly depending on the site.)

Meschach is available in other forms on thrain.anu.edu.au by ftp in the directory pub/meschach. It is available as a .tar file (mesch12a.tar for version 1.2a), or as a collection of .shar files, or as a .zip file. The .tar and .zip versions each contain the entire contents of the Meschach library.