Subject: Re: Sparse Matrix Routines
Posted by nhagen on Mon, 26 Jul 2004 21:16:10 GMT

Nigel Wade <nmw@ion.le.ac.uk> wrote:
> I think that's the way that MATLAB stores sparse matrices. I've never used
> them, but I seem to remember from writing code to read the MATLAB data
> files that sparse matrices were stored in two arrays, one of data and the
> other of indices. Whether MATLAB is in any way optimised for any
> particular type of sparse matrix I could not say.
>
> Also, you might want to look into whether the sparse matrix extensions
> for Python/SciPy/Numerical Python are of any use.

Thanks (to both responders) for pointing in a helpful direction. I've
located two sparse matrix libraries (SparseLib++ and
SparseMatrixToolkit) which provide some of the ideas I'm looking for.
As you mentioned, Matlab seems to provide a very straightforward
sparse matrix storage scheme much like I'm looking for, so I'm going
to look into whether they provide any information on the low-level
coding of their sparse matrix routines....

- Marius