Linear Algebra Functions with NAG Support

Many LinearAlgebra package functions use NAG routines to carry out computations. The use of the NAG routines allows computations to be carried out very quickly.

This worksheet will guide you through techniques to maximize the power and speed of these routines.

To begin, place your cursor in the execution group below and press Enter.

```maple
> restart;
with(LinearAlgebra):
```

In order to see when NAG routines are called, set the infolevel for LinearAlgebra to 1.

```maple
> infolevel[LinearAlgebra]:=1;
```

- Determining Whether Hardware Floats are Used
- Controlling What Information is Returned
- Controlling the Format of the Output
- Minimizing Storage Costs
- Choosing a Method
- LUDecomposition - Some Routine-Specific Hints
- LinearSolve - Some Routine-Specific Hints