

Eigenvector routine....

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Does anyone know of a small, simple, freely available Eigenvector routine?

My application has been developed using `jacobi.c` (and `eigsrt.c`) from Numerical Recipes. This works well for me, but the application will soon be released under the GPL, and the nice folks at NR don't want their source distributed around. I could just leave stubs in place and require people to get the routines themselves, but I'd rather replace the routines with something more available.

I don't really want to introduce a dependency on a large numerical toolkit, instead, I'd like to just pull in the relevant code. Something small and simple is preferred over the latest & greatest.

In fact, the problem is nearly trivial. Find the eigenvectors & eigenvalues of a real, symmetric, 3x3 matrix. Then, all I need is the eigenvector with the smallest eigenvalue.

With such a small problem, I'm surprised there isn't an even simpler approach...

Any help will be appreciated,

Rob

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- *Follow-Ups:*
 - ◆ ***Re: Eigenvector routine....***
 - ◇ *From:* jburgy
 - ◆ ***Re: Eigenvector routine....***
 - ◇ *From:* Sensei
 - Prev by Date: ***Re: lint***
 - Next by Date: ***make fast cash, THE REAL WAY!!***
 - Previous by thread: ***lint***
 - Next by thread: ***Re: Eigenvector routine....***

Eigenvector routine....

- Index(es):
 - ◆ *Date*
 - ◆ *Thread*