

Re: Choice of programming language

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- *From:* "Anthony Garcia" <agarcia658@xxxxxxxxxxxxxx>
 - *Date:* Thu, 16 Mar 2006 05:26:35 GMT
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"NoIdea" <foru@xxxxxxxxxx> wrote in message
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"Damien" <damien.hocking@xxxxxxxxxx> wrote in message
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It's still mostly Fortran, with some C/C++. New codes are likely to be Fortran 90/95 rather than Fortran 77. What's likely is that the numerical part is Fortran and the simulation or modeling framework that poses the problem is C++. Nobody does serious numerical computation in Java. It sucks for that, it's too slow.

yep agreed on that – i'm writing some linear algebra applications in java at the moment and they dont exactly rocket along. im only using java because it has a arbitrary precision arithmetic feature which few other languages have built in.

with regards to the OPs question, undoubtedly fortran

Damien

There are actually plenty of people who perform numerics in Java. As an example consider the rotordynamic code FEMRDYN which performs FEA and various integration schemes for time domain analysis of rotor systems. I think portability, availability of tools, programmer efficiency and other considerations are often the determining factor in numerical tools. At my company we often use visual basic for programming many analysis functions because it is portable within the wintel framework and we can integrate it with other widely available software from CAD to word processing documents.