

Re: C++ Matrix & Linear Algebra library

Source: <http://sci.tech-archive.net/Archive/sci.math.num-analysis/2008-08/msg00204.html>

- *From:* Lou Pecora <pecora@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 22 Aug 2008 14:42:02 -0400
-

In article

<f4f784af-5c62-411c-9c1a-d4f1f08caf40@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, Evgenii Rudnyi <usenet@xxxxxxxxx> wrote:

On Aug 22, 9:12 am, Gert Van den Eynde <gvdey...@xxxxxxxxx> wrote:

Dear Evgenii,

It seems that, even several years after the introduction of C++ in scientific computing, people have moved back to "old style" Fortran because "the software is already there and it works" or they go for "full option packages" like Matlab, Mathematica, Maple,...

I would say that the reason is not Fortran but rather Matlab, Mathematica, Maple,... What is necessary for research is actually rapid prototyping and neither Fortran nor C++ are qualified for this.

A good student after a month or two time can obtain something useful in Matlab or Mathematica – I mean from a scientific viewpoint. What he/she could have done for a comparable time in Fortran/C++?

Also there is a trend for the software development that there should be a scripting gluing all pieces together. This also changes the way the software is developed. C++ is left for relatively low level things where comfortability is not that important. It is after all for a Real Programmer. The comfort is for the scripting.

Sounds like a job for Python (and/or it's friend Sage). Check it out.

Rapid prototyping, easy to learn language which is a good glue and has come to often be used as such in the coding community in general as well as science community. Just do a Google and check out SourceForge for starters.

--
-- Lou Pecora

.