

best software environment for numerical analysis

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I am about to embark on a software project with intensive numerical analysis and i have been out of it(ie software) for a while.

below is my project but i wanted to know what the best language to use is. My best guess is to use c++ and use kdevelop 3.1 on Suse Linux 9.1, and that i will be able to compile other people's C or C++ code from the internet. (other linux distro's

15 years ago i did a fortran simulation utilised in diffraction co-efficients for antenna desgn. now i assume all the fortran stuff is now essentially available in C or C++(or at least the stuff i need).

I assume for numerical analysis, from what i have recently read on the internet, delphi and Python are NOT the way to go.

Project Description: I am writing a blackjack simulation for card counting analyis. will be calculations of 0% advantage, confidence intervals variance etc for numerous rule variations of a game that is well suited to object orientated design. Comparisons of actual recorded results with expected results etc.

So my questions are: any info appreciated. :) :)

1. Delphi/python and other high level langauges are NOT the way to go?
2. C++ is roughly on the right track?
3. kdevelop will give me reasonable CASE tools etc/ software engineering environment? (i want to spend the least amount of time doing the software)
4. If i wanted to get the best tools available does that mean spending lots of \$\$\$\$ on tools like Rational or other. is this right? just how "bad" is kdevelop compared to these other tools?