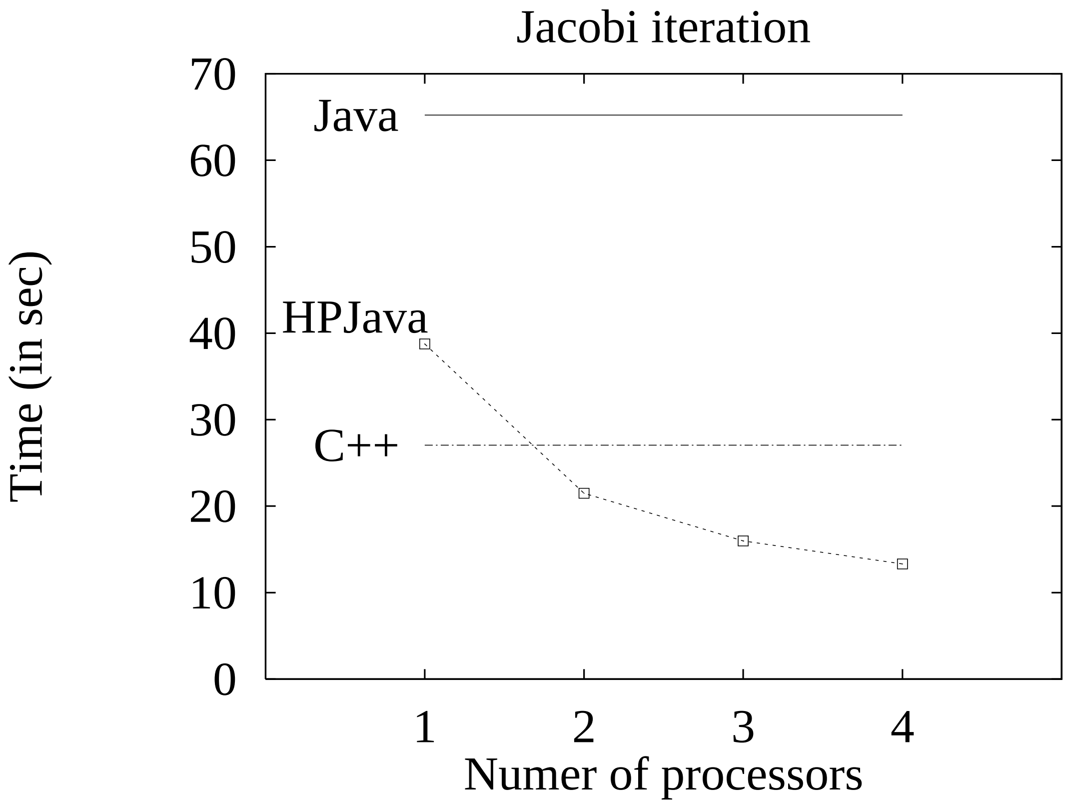
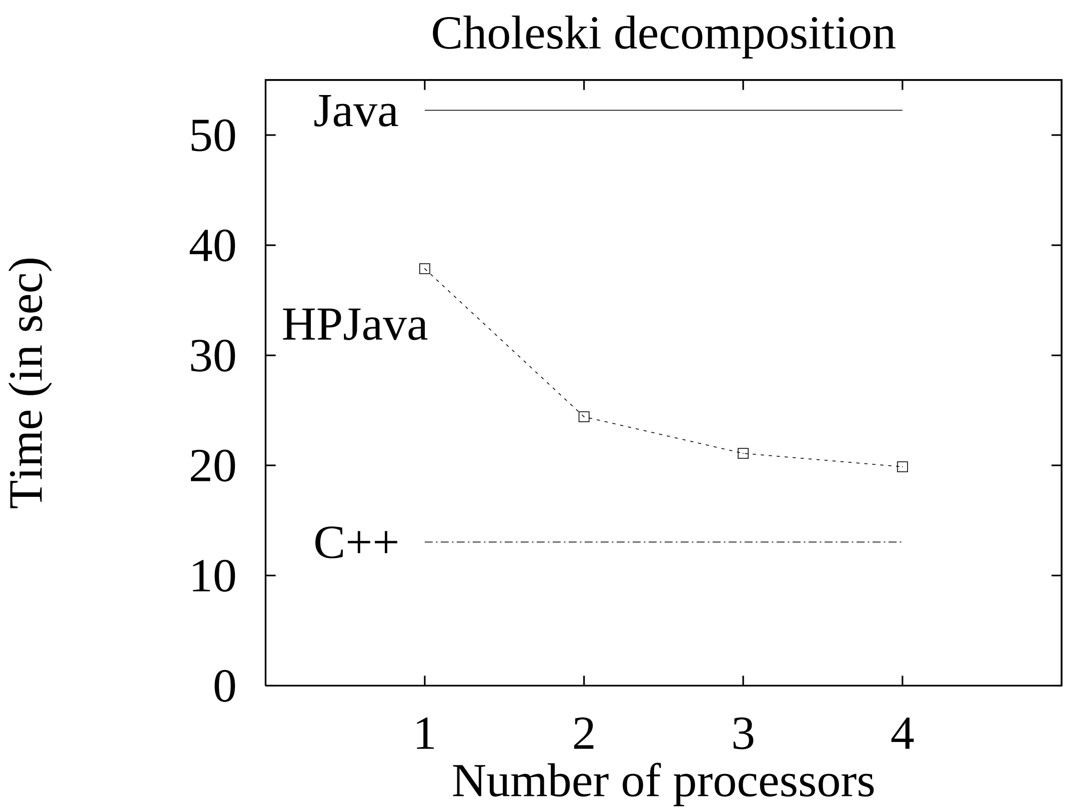
Jacobi Update



Choleski


Choleski decomposition
Java
HPJava
C++
Time (in sec)
0
10
20
30
40
50
1
2
3
4
Number of processors

Conclusions

- HPspmd language extensions provide much of the expressive power of HPF, but in a strictly SPMD enviroment.
- Allows programs to combine data parallel code and SPMD library calls directly.
- Initial full binding will be to Java—originally regarded as a prototype, but rapidly advancing Java performance may make this a competitive production environment.
- Similar Fortran extensions have been suggested (FAST proposal). May be implemented by Peking collaborators. . .