

Safety and Portability of Conventions Software

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Abstract

Conventions software is coded in an antiquated programming language which profoundly depends on compiler and machine architecture. Thus, the current transition from 32-bit to 64-bit processor architecture will affect already the 7th decimal mantissa digit of the results. It's high time to recode the conventional models in a save, portable, and standardized language. Fortran 95 is a qualified candidate. Using the language feature of module provides a stright and cost-effective way for the migration of the software.