Call for Papers

SPECIAL ISSUE ON STATE-OF-THE-ART APPLICATIONS OF PURE FUNCTIONAL PROGRAMMING LANGUAGES

Pieter Hartel and Rinus Plasmeijer, guest editors

A special issue of the *Journal of Functional Programming* will be devoted to presenting state-of-the-art applications of pure functional languages. The submission deadline is 30 June 1994.

The special issue will consist of a number of papers describing real applications implemented purely functionally. These applications can be made by non-expert and expert functional programmers alike. Each paper describes the lessons learned whilst writing the application. This should include the whole trajectory: design, implementation, performance, and use.

Applications may be written in any purely-functional language as Haskell or Sisal, or in the functional subset of languages with support side effects, such as Lisp, Standard ML or Id. (There is an interesting question as to what extent impure effects are helpful in functional programs, but this special issue will concentrate instead on the interesting question of how far one can get in the pure world alone.) Authors should assume familiarity with the language they use, except perhaps for esoteric features.

Particularly welcome are applications that clearly demonstrate the advantages and disadvantages of lazy or non-strict functional programming, by discussing the effects this has on expressiveness and performance.

It is strongly encouraged to make the application and the input and output data sets available via anonymous ftp, so that programs can be used for benchmarking purposes by others. A few realistic input data sets and the corresponding outputs should be supplied with each program.

Submission by Email of postscript is encouraged, but hard copies are also welcome. All submissions for the special issue on applications should be sent to one of the guest

editors, see addresses below. Submissions should arrive by 30 June 1994. For other submission details please consult an issue of the *Journal of Functional Programming*.

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