

The Collected Algorithms of the ACM

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Abstract

The Collected Algorithms of the ACM (CALGO) is now the longest running journal-published series of algorithms. After placing CALGO in the context of other journal algorithm series, we discuss the factors that we believe have made CALGO the well respected means of publishing mathematical software that it is today. We report on how moving with the times and technology has ensured the survival of CALGO, and we look briefly at how we may continue this in the near future.

Keywords: numerical software, software libraries, software quality, mathematical software.

1 Introduction

Collections of scientific routines have existed since the dawn of the digital computing age. Consisting of around 90 routines written in assembler, one of the first software libraries to be documented was developed around 1950 at the University of Cambridge for their EDSAC computer [57]. Authors of routines destined for this library had to demonstrate that their code was capable of solving a wide variety of problems and was efficiently programmed, well tested and properly documented. Even at this early stage the basic ground rules required for the successful take up of library software by end-users were recognized.

During the intervening years such collections have developed in many different directions: commercial general-purpose (NAG [44], IMSL [55]), institutional (CERN [10], Harwell [51]), application specific (*Applied Statistics* [48], *Computer Physics Communications* [17]), problem area specific (Eispack [52, 20], Lapack [2, 6]) and Open Source/Freely available (netlib [15], Gnu [21]). In all cases the driving force has been to provide end-users with reliable, accurate, efficient, general-purpose building blocks with which to construct or guide their own applications.

The Collected Algorithms of the ACM (CALGO) is unusual in that this collection was initiated quite early in the development of computer software and is still growing. While the implementation languages and the means of publishing a specific algorithm have both changed over the years, the basic ideals such as high quality, robustness and good documentation have remained and, indeed, improved with time and experience.

In section 2 we look briefly at the history of CALGO and discuss the collection in the context of a number of similar projects that have been undertaken by other journals. Section 3 looks briefly at how the choice of implementation languages has changed and how different journals influenced this choice. In Section 4, we review how the availability of the published software has changed and how this has affected the continuation of journal publication of software. Section 5 provides a discussion of the ways in which CALGO has influenced how

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