

# Reconfigurable Computing System Initiatives at Centre for Development of Advanced Computing

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## Abstract

*With the on going, worldwide research on Reconfigurable Computing Systems (RCS), Centre for Development of Advanced Computing (C-DAC), a premier R&D institute of the government of India has also embarked upon the study and development of such systems and related technologies. In this paper we briefly describe the RCS initiatives at C-DAC. The initial focus on understanding the technology and the required hardware for mapping algorithmic routines on such system has helped us in proving the concept in the field of reconfigurable computing. Scientific and engineering application solvers like matrix multiplication, factorization and FFT are designed and implemented on the RCS card from C-DAC. This has given us a better idea of further hardware expansion and application solvers that will give considerable acceleration on the future versions of RCS.*