## Chapter 6 Conclusion and Further Research

Abstract Complex Binary Number System (CBNS) with its uniqueness in representing complex numbers as a one-unit binary string holds great potential in the computer systems of tomorrow. With an innovative technique for parallel processing, such as associative dataflow, utilizing CBNS for representation of complex numbers, it is possible to leapfrog the speed of computing within today's signal and image processing applications. Preliminary work, spanning over two decades of research work and presented in this book, has shown good potential in this arena and scientists and engineers are urged to explore this avenue in the years to come. Although simulations of CBADP within digital signal and image processing applications and estimating performance evaluations will be very useful in the theoretical areas of computer architecture research, a complete working implementation of CBADP on a FPGA or an ASIC should be the ultimate goal of any researcher in this area.