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**Performance Evaluation of Intel Processor based  
cc-NUMA Systems for Scalable Iterative Solvers**

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Parallel implementation of vector processing for sparse matrix algorithms is a critical problem on shared memory architectures with finite memory bandwidth. In this study, we evaluate the performance and the scalability of the conjugate gradient type algorithm applied for the computation of a few extreme eigenpairs of large scale sparse eigenproblems and its preconditioners, originally proposed and implemented by Knyazev and Argentati, on various architectures.