











## 5 Conclusion

Mobile computing has become a common computing paradigm that provides convenience to people's daily life via a number of useful applications. However, mobile device's inherent defects influence the quality of mobile applications. Due to network communication capability, a remedy scheme, component offloading makes room for handling mentioned issues via migrating computing intensive component to the cloud server. However, a significant technical challenge is to assure quality of application in component offloading. In this paper, the proposed predictive offloading framework with its overall architecture that provides the chance to perform efficient offloading. Our strategy for the efficient component offloading is to utilize a look-ahead method to identify the needed for component offloading. We present an efficient algorithm to predict the demand for resources in advance. At last, we conducted experiments with using matrix-matrix multiplication program for validating the performance improvement.

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