ABSTRACT

As the coming up gradually for the combination of the technologies of cloud computing and IoT (internet of thing), a server for this approach is implemented and certified in this thesis. On the basis of the reliability and advantageous of these two technologies the value-added applications are widely raising the intelligent markets. On the other hand, since the amount of storage for such application can become more layering, it can not only increase the computing speed. But the loading between the server and the client will be reduced. Motivating on aforementioned to establish and develop an extendable and reliable database on the platform of IOT and cloud computing server is very important issue. In this thesis, an application is implemented based on the Apache server technologies for assurance two sub-system is developed by our research group, which includes “group control system” and “agriculture plant system”. The cloud computing system established in this thesis has a stable operation state when a huge number of data is processed and it works as a general pc (personal computer) performance. Generally speaking, the server system provides a reliable and compatible performance in combing the other two sub-systems together. Finally, according to the benchmark of the thesis, it is said that the developed server system can be run and work normally in current stage.

Keywords : internet of thing、Cloud computing、database、apache server