Arm Based Embedded System for Industrial Application Using TCP/IP

R.Brindha[1], R.Ramprakash[2]

PG Scholar, embedded system technologies, Angel College of engineering and technology, Tirupur[1]

Asst. professor, electrical and electronics Department, Angel College of engineering and technology, Tirupur[2]

Abstract: In embedded and real time system it is very essential to design online interactive data acquisition system for monitoring power plant systems. This project provides globally inter connected computer networks to access the power plants at any part of the world by using TCP/IP protocol. In multi tasking embedded C language, Web server application is ported into an ARM processor. In industries, systems are becoming very complex. Industries system needs to test the site equipments and environmental so it can track state of system in real time. This is more reliable in Embedded and real time data acquisition and control system, design and implementation of online embedded web server is challenging part. To interface real time embedded application like data acquisition, automation and control system in industries specially power generation plant. In this system design and development of online Interactive Data Acquisition and Control system (IDACS) using ARM base embedded web server, it can be digital distributed control system. This system uses ARM Processor portability it makes the system more real time and handling various processes based on provides high performance to the system.

Keywords: Interactive data acquisition and control system (IDACS), Control unit, monitoring unit, embedded web server.