

The nature of the experimentation is for FM Broadcasting signals processing using a Pentium 4 processor. Software used is to extend and exploit c/c++ code to boost compiler performance of its audio and data. The FM audio output will be linked to another city by a static IP address, and be rebroadcast to other embedded devices. This system reduces hardware use of STL equipment cost, by using wireless point to point system. Equipment used to produce FM is an EMB 500TX, plus 2 circular polarized antenna. The computer workstation is designed for digital audio processing of FM signals. Markets are changing rapidly-for wireless, wire telecommunication, and Digital Home appliances sectors. My research also treats cost reduction, material quality and testing, by example. I Sincerely hope that this experiment, will address issues that, users of this mediums architecture will benefit.

