ABSTRACT

In designing the acoustical system need some criterians i.e., sound pressure measurement data, computing duration of noise at the standard level and analysis of measurement data. To get the noise criterians manually will be need a log time and high acuration.

To satisfy these above criterians, the instrumentation system using the computer as its one of main componen in designing. By adapting between hard ware and soft ware of the system is expected the design prototype can produce the otomatic measurement and analysis sound pressure data.

The hard ware includes the microcomputer interfaces thought input/output as RAM, ROM, Display, PPI 8255. Thought the ADC circuit, sound pressure manipulation of mic condenser circuit will be processed by computer. Whereas the soft ware includes the programs be used Basic Aple Soft language.

Depending on the above design and then be use the Apple ][ microcomputer. Really, microcomputer can be use to analysis the expected sound pressure distribution result the acuration is 0.036% and sensitivitas 1.025. At the final of measure, the prototype will be result the distribution form and \[ L_{10}, L_{50}, L_{90} \].