

Abstract

**TITLE : THE CREATION OF THE PROGRAMS FOR READING THE
DATA OF THE TELEPHONE**

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Chiang Mai University Telephone systems were developed from cross-bar systems to digital systems. The Teltrac computer program was used to record and read the data from the center of the telephone systems called "MD-110". The recording program was effective but the reading program was not. It could read the data slowly, its' the output data couldn't be used for comparing with the bill data from the Telephone Department and the program was used with difficulty.

The purpose of the study was to solve the problems of the the reading Teltrac program. Six data (time and duration, No. of telephone, position, department, rate and bill data) collected from all Organizations of Chiang Mai University and the Telephone Department. The new program called "PHONE", composed of 70 files (7 menu programs, 2 executing programs, 4 compiling programs, 1 creating program, 16 reading and printing programs, 6 editing files programs, 3 erasing programs, 3 checking files programs, 3 subprograms, 4 input data files, 6 compile data files, 3 output data files, 2 output index files, 3 No. of telephone and rate data files, 4 index data files, 3 structure blank files) was created.

To follow up the new program created, its operation process was 20 times as quick as the operation process of the Teltrac program and it was used without difficulty. The user could edit and update the data if the password was known. The output data could be compared with the bill data from the Telephone Department.

It is recommended that the new program can be linked to MD-110, and it directly record the telephone data. Its operation process will be even 40 times faster.