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This thesis is a result of research and database set up to specify production capacity especially for assembly line of a selected pilot run factory. There are two main functions in this research, the first function is to design and set up database for data collection and the second is the calculation of production capacity. The report generate by the calculation of production capacity will present capacity process and steps in which the actual production capacity is indicated. The research experiment was conducted at semiconductor industry and the result has been measured compare to the conventional type of capacity determination.
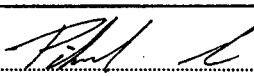
The result of data calculation and processing compare of the modern type compare to the conventional type show that it can store the right data, easy for use and edit, faster, more accuracy and better than the conventional type. Time use to calculate the capacity by conventional type take 4 hr. while the modern type take only 30 minutes which 87.5% faster. In term of accuracy for data storage and processing, the modern type can be analyzed to the level of machine model selected not only the machine mane as the conventional type did.
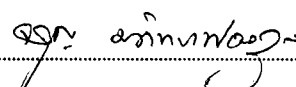
More accuracy to collect and processing data by modern type resulted by the consideration in detail of production step down to the minor level while conventional type at the major level that expect to be "the bottom neck" process only. Data collecting by conventional type keep and track the data in personnel computer which is execute under Microsoft Access, the database management software.