

# TOTAL: the data base management system.

A complete integrated data base management system which performs all functions of data base maintenance, update, retrieval and data integrity *with any host language at the "call" level*. That's Cincom Systems' TOTAL.

With TOTAL, data is structured logically, non-redundantly in network-structured multi-file, multi-linkage environments. Requirements for demand and batch processing are optimally served.

The system is continually self-optimizing. Eliminates both performance degradation and the requirement for periodic data base reorganization.

A Data Base Definition Language (DBDL) is provided for the definition and structuring of the data base. As data requirements change, new data elements and associations may be added without affecting application programs. Data independence is provided down to the data element or grouped data element level.

Application programs are insulated from their environment. So changes in operating system, hardware, language or processing mode have little or no effect on operating application programs.

With TOTAL, modular and evolutionary growth is facilitated. Conversion is eliminated as a way of life.

A Data Manipulation Language (DML) is invoked by the host language programmer at the "call"

level for all communication with the data base.

Powerful commands make complex data manipulation easy. Control functions monitor and virtually eliminate error possibilities. The user programmer is presented *only* with data elements requested. Communication is always fast, flexible, secure.

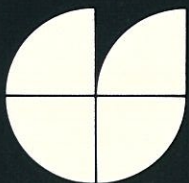
Hardware enhancing features minimize core and direct storage requirements. For example, I/O Pool Sharing allows sharing of common I/O areas providing more usable core. External indexes, directories and fixed overflow areas are eliminated, providing more usable disk space.

TOTAL functions in any environment. Provides facilities for processing in direct (demand) environments or batch serial modes.

Facilities include protection from Concurrent Updating, Dynamic Logging of Transactions, Automatic Data Base Recovery and Restoration for processing in dynamic environments.

These are some of the reasons why we call it TOTAL.

We'd like to show you why TOTAL has become the most widely and successfully used system of its kind in existence today. If you'd like more information or a personal presentation, write on your company letterhead to Cincom Systems, Inc., 2181 Victory Parkway, Cincinnati, Ohio 45206. 513/961-4110.



**Cincom Systems Inc: We create efficiency.**