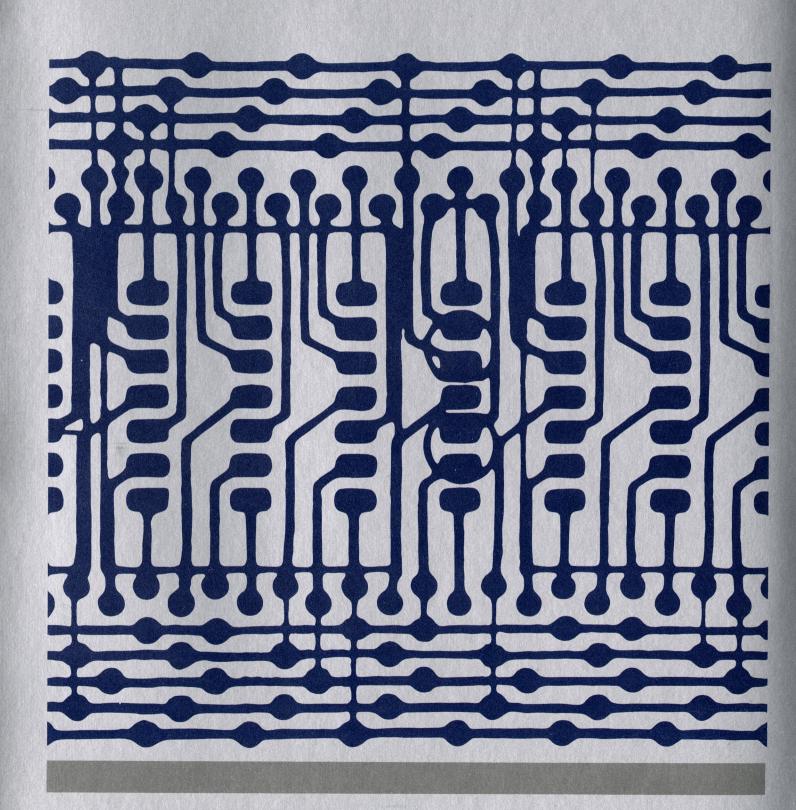# Burroughs Environmental Software

Innovative Solutions for the Management of the Transaction-Oriented Environment...

from Burroughs Family of Program Product Development Aids.

Why Environmental Software?

Complex, Unmanageable Network Design
Conventional, transaction-oriented systems result in:
- Duplication of functions in the application programs.
- Loss of modularity and flexibility.
- Individual changes requiring changes to the entire system.
- High development and maintenance costs.

Increasing Program Development Costs
Higher labor costs and longer program development times are driving software costs up.
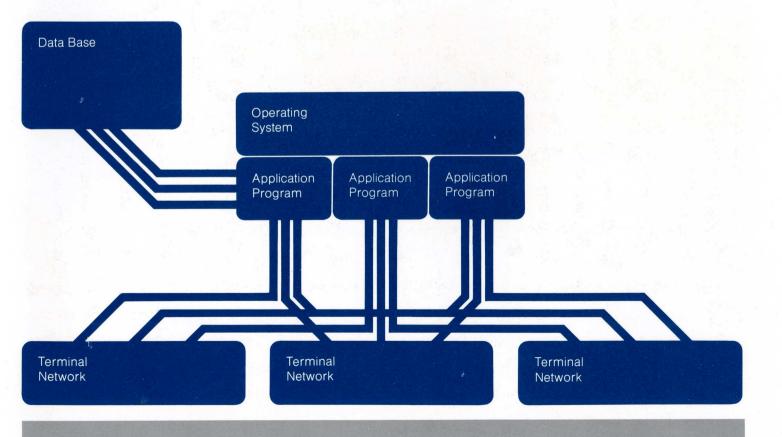
Decreasing Program Life-Cycle
Changing laws and regulations coupled with the changing requirements of your growing business tend to reduce software life faster than ever.

Higher Software Maintenance Costs
Growth of the terminal network and data base together with expanded transaction needs result in continuous and costly modifications to the software.

Environmental Software is designed to solve the problems of conventional data processing systems.

Burroughs Offers an Innovative Solution

Burroughs Environmental Software removes environmental management from your applications by managing the link between the computer, the terminal network, the data base and the application programs. Because it controls these external processes that would otherwise affect your application programs, you benefit from:
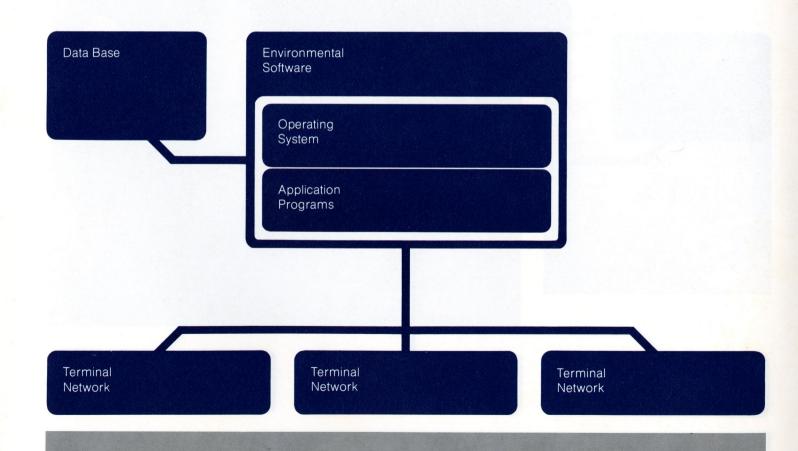
Simple, Efficient Network Design
- Consolidation of environmental management functions results in more efficient responsive systems.

- Since application programs only perform application functions, better utilization of processing power is obtained.
- Because of centralized control, greater data integrity can be obtained.

Reduced Software Development Costs
- Removal of non-application code reduces program development time.
- Your programmers do not need to be trained in network management and data base management.
- Development aids increase programmers productivity while providing the flexibility required.

Reduced Program Maintenance Costs
- Your application programmers only develop and maintain application functions.
- Application programmers are isolated from most data base and network changes.
- Burroughs supports and maintains the Environmental Software.

Data Base

Environmental Software

Operating System

Application Programs

Terminal Network

Terminal Network

Terminal Network

Environmental Management

Burroughs Environmental Software consists of Transaction Management Systems, Data Base Management Systems and Network Management Systems. Together, they provide a total package for the management of your transaction-oriented network.

This software is modular in design, providing the flexibility to select only those modules that meet your present requirements and expand your system as your business grows.

Burroughs Environmental Software Benefits Transaction-Oriented Networks Through:

Transaction Management
Transaction Processing is managed by systems that:
- Provide access and process security.
- Automatically route transactions between their source and destination.
- Modify the format of transactions to meet network and process requirements.
- Provide aids to develop application programs.
- Restore the network if failure is detected.
- Supply data entry and validation systems.

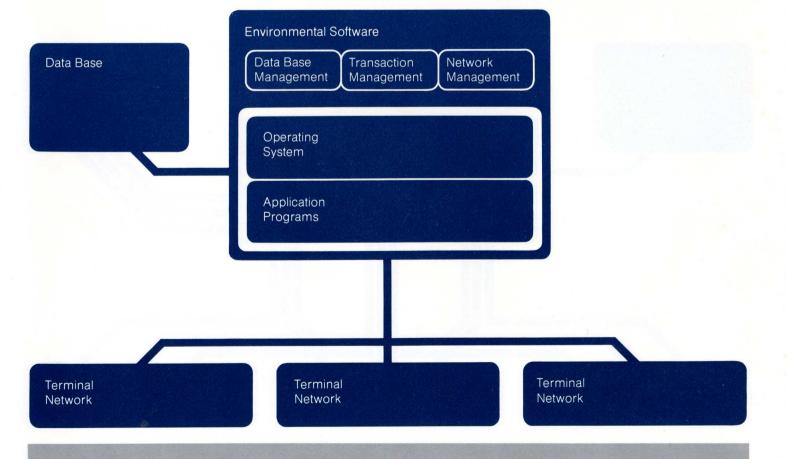### Data Base Management
The Data Base is managed by systems that:
- Create and maintain managed data files (sets).
- Supply required access routines.
- Provide data base recovery.
- Eliminate errors caused by contention and deadlock.
- Provide comprehensive reporting procedures.
- Support inquiry into the data base.

Network Management
The Data Communications Network is managed by systems that:
- Provide required data communications protocols.
- Detect line and protocol errors.
- Simplify network reconfiguration.
- Monitor the status of the remote network.
- Provide remote batch processing.

By removing environmental management from your applications, Burroughs allows you to concentrate on your changing business requirements.

Data Base

Environmental Software
- Data Base Management
- Transaction Management
- Network Management

Operating System

Application Programs

Terminal Network

Terminal Network

Terminal Network

Transaction Management

Burroughs offers you the most innovative Transaction Management systems in the industry today. The key words for these products are *simplicity, flexibility* and *efficiency.*

Burroughs Generalized Message Control System (GEMCOS). It features:

- Access Control to ensure that only authorized personnel are utilizing your system.
- Transaction Routing for the automatic identification and routing of transactions.
- Message Formatting removes the requirement that the application be aware of the characteristics of the terminal network.

- Message Paging allows the terminal operator to browse through the response to a transaction request.
- Network Recovery provides for system restoration after a network failure. Synchronization with the data base manager ensures accurate data base restoration.
- Network Control gives your system administrator the ability to obtain network statistics and to dynamically reconfigure the network.

Format Generator gives users of GEMCOS the ability to define message formats on a display terminal and have it automatically translated into transaction control procedures for use by the Message Control System (MCS).

Burroughs On-Line Data Entry System (ODESY) is designed to facilitate data entry and validation by using multiple display terminals. Data input can be reformatted before output and an optional journal listing can be produced. ODESY minimizes the errors made by your data entry personnel.

The Command and Edit System (CANDE) provides your data processing personnel with programming and updating capabilities in an interactive, on-line environment. Through the use of CANDE, a significant reduction in programming overhead can be achieved.

Test Data Generator (TDG) provides the ability to create test data for application program testing and performance measurement. Test data can be created randomly or extracted from an existing data base. .

Burroughs Problem Oriented Language Generator (POLGEN) was developed as an aid in developing programs that accept input in a user-defined notation, or vocabulary.

Data Base Management

Burroughs Data Base Management systems include dynamic programs for storing, retrieving, analyzing and reporting on your data. The flexibility to adapt to your changing business requirements are built into each system.

Data Management Systems (DMS) is a comprehensive data base management system.

It provides the data base functions required for creating, maintaining, retrieving and storing information. Because DMS operates on a transaction concept, it incorporates the most sophisticated techniques of contention and dead-lock resolution.

Since the access routines are controlled by the Master Control Program, they are efficient and reliable.

Report Writer II (REPORTER II) provides the ability to access a file, accumulate totals and statistics, create data files for subsequent processing, and print desired reports. With REPORTER II, you can obtain required reports within hours instead of the days or weeks required when they must be programmed.
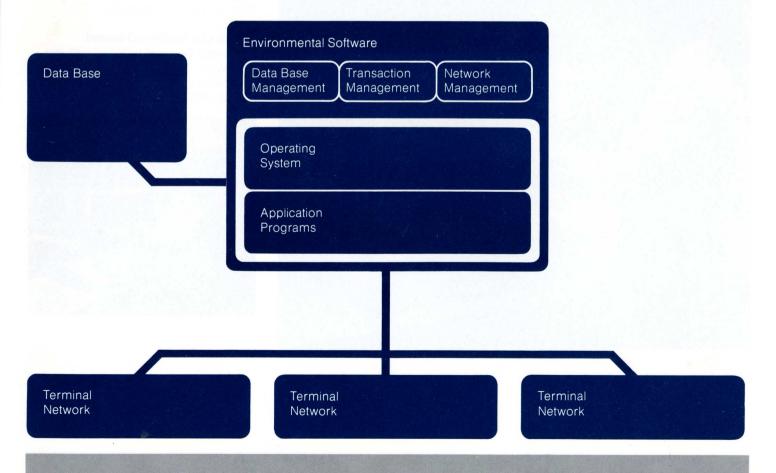
Audit-Reporter was developed to streamline audit-reporting procedures; both internal auditing and external auditing. In addition to all of the features of REPORTER II, audit reporter provides:
- Selecting and printing audit samples.
- Examining records for completeness, correctness and consistency.
- Comparing duplicate or related data for correctness and consistency.
- Comparing audit data with computerized records.
- Printing of confirmation notices.

The system has been designed for use by auditors with a basic, rather than an in-depth, knowledge of programming techniques.

Burroughs On-Line Reporter supplies users of REPORTER II and Audit-Reporter with on-line reporting capabilities. Users may easily create reports and browse through them at an executive terminal.

DMS II Inquiry provides a responsive method by which a user can, via terminal, interactively examine information in a DMS II data base. DMS II Inquiry gives you the item-reporting capability that is so difficult and costly for your programming staff to create.

Network Management

Burroughs Network Management systems are easy to use and responsive to change. With Burroughs Network Management systems, only a minimal knowledge of data communications is required to implement your on-line application system.

Network Definition Language (NDL) is a problem-oriented language that provides the flexibility to generate a program to control your terminal network. By selecting from a range of options, you can conveniently tailor the network to the specific requirements of your installation. Because NDL controls the terminal network, your application programmers can concentrate on implementing your business application.

NDL provides the flexibility to manage a wide range of terminals — from hard copy devices to video displays. It is designed to adapt to the dynamic nature of a data communications environment.

With NDL, network growth and reconfiguration no longer mean lengthy reprogramming. A simple regeneration updates your network management system.

Burroughs Remote Job Entry (RJE) is an easy-to-use but powerful program product that enables users of Burroughs systems to run jobs in a host system from a remote processor. The host system returns the results to the remote processor. By allowing you to distribute your data processing, Burroughs gives you the security, convenience, and cost-effectiveness that you desire.

Burroughs offers you a dynamic, effectual solution for transaction-oriented data processing.

Product Design
State-of-the-Art design coupled with an ease-of-use philosophy is the reason Burroughs Environmental Software sets the standard for the computing industry, today.

Industry Knowledge
Burroughs marketing specialists know the problems encountered in their industry specialties. They are trained to design a system that will blend application programs and Burroughs Environmental Software to provide the solution to your problems.

Business Forms and Supplies
Our forms and supplies team will make certain your operation has the most efficient and economical forms and supplies to complement your system.

Education
Burroughs maintains customer training centers across the country. They are designed to give you the skill to obtain the maximum benefit from your computer system.

Support
With a Burroughs computer system, you'll have more than just a sophisticated piece of hardware. You'll have the full support of a worldwide company dedicated exclusively to equipment and systems for data processing.

Experience and Success
Burroughs has demonstrated its ability to justify your confidence and trust through many years of successful operations.
- Worldwide Operations.
- 90 Years of Experience.
- Recognized as one of the Industry Leaders.
- Continual and Successful Growth.