

POINT 4's FORCE: DEVELOPS NEW SOFTWARE FASTER

POINT 4's FORCE, an automatic programming system, reduces application development time by as much as 80%. The system increases programmer productivity by generating bug-free, documented source code. A leader in the code generation field, FORCE performs essential programming functions automatically, thereby allowing the programmer to concentrate on the initial tasks requiring senior talent.

FORCE FEATURES

- Generates independent, totally transportable IRIS* Business BASIC programs that are:
 - documented
 - uniform
 - fully-commented and labeled
 - error-free
- Contains a data-dictionary that dynamically maintains data and program specifications
- Produces sophisticated reports, data entry and menu programs
- Aids in conversion of software to IRIS Business BASIC

- Provides programmer flexibility with 19 macro commands
- Offers free-form edit masking
- Automatically creates user manual
- Links by name programs, menus and documentation

FORCE is composed of three primary functional models: a data-dictionary that dynamically stores and manages information used in program development; language processors which retrieve specified information from the dictionary and generate source code; and the documentation facility.

INDEPENDENT PROGRAMS

Once an application program is created with FORCE, it performs independently of the source code generation system. FORCE generated programs can be utilized with any of POINT 4's multi-user computer systems and other similar computers which are supported by IRIS.* IRIS (Interactive Real-time Information System) is POINT 4's high-performance,

time-sharing operating system, capable of supporting a large number of concurrent users and is utilized in over 19,000 installations worldwide.

DATA-DICTIONARY: A COMMON DATA BASE

Application components are specified to the system through straightforward entry techniques. Each application area in the dictionary is referenced by system name, and specifications may be shared between systems.

Program entry screens and report formats are stored in the dictionary. Data element attributes, file characteristics and program information are defined to the dictionary and referenced during source code generation so that the programs execute as required. Programs can be altered by changing dictionary information and regenerating.

AIDS PROGRAM CONVERSION

A special advantage to users with existing application programs is FORCE's ability to assist in conversion of those programs to IRIS Business BASIC, saving many hours of programming time.

SPECIFICATION TO FINISHED PROGRAM— SWIFTLY

FORCE generated programs are:

Extensively Documented: Programming application information is readily available when the user needs it. Generated source code is documented both internally and externally. In-line comments and labeled source code enhance internal documentation. External documentation on files, programs, data elements and



