SW3100/1 MUSIL Compiler Package

RESUME

MUSIL is a high-level programming language, which is based on the PASCAL language concept. It is especially suitable for device oriented applications and provides effective means for file manipulation.

Some of the features of the MUSIL Compiler Package are:

- Flexible I/O handling operating on a character, record, or block level, including well-structured status/give-up facilities.
- Data structures include integers, strings, records, and files, from which the programmer may define new structures.
- Inclusion of assembler-coded procedures from the library file.
- Virtual memory mapping (paged MUSIL programs).

DESCRIPTION

The MUSIL Compiler Package comprises the MUSIL compiler, the MUSIL cross-reference program, and a library of standard assembler-coded procedures. The relocatable binary output file is directly loadable under both the MUS and the DOMUS Operating Systems, and program execution is performed by the MUSIL interpreter module. The file data structure is well-suited to multibuffered I/O handling, including standard and user-defined exception/status procedures.

During compilation the compiled source text can be listed with error diagnostics to facilitate program debugging, and input parameters, defining assembler-coded procedure loading from the library, object program paging, and the like, can be specified in a standard utility format. When compilation takes place, a number of run-time management procedures are automatically included to allow for standardized stopping, starting, and removal of the program. These procedures and a general operator intervention module provide the user with effective on-line run-time control.

The carefully selected language elements together with a minimized system overhead offer the user a minimized high-level language solution for various applications compared to specialized, less structured assembler-code program development.

SOFTWARE PREREQUISITES
DOMUS Operating and Utility System Package, SW3001/1.