

What is Compiled and What is Not

The Natural Optimizer Compiler is particularly effective for programs that contain a considerable amount of data manipulation, such as computation, transfer, and logical condition processing.

The Natural Optimizer Compiler compiles the following statements to machine code:

- move statements (RESET, COMPUTE and MOVE)
- arithmetic statements (COMPUTE, ADD, SUBTRACT, MULTIPLY, DIVIDE)
- conditional statements (IF, DECIDE)
- control statements (FOR, REPEAT)
- ESCAPE
- COMPRESS
- EXAMINE (applies to NOC Version 3.1.5 only)
with the the following clauses only:
GIVING NUMBER, GIVING POSITION or GIVING LENGTH (see also the Natural Statements documentation).
GIVING INDEX is not optimized.

Example:

```
EXAMINE #TEXT FOR #A GIVING NUMBER #NMB1  
EXAMINE #TEXT FOR #A GIVING POSITION #POSEX5  
EXAMINE #TEXT FOR #A GIVING LENGTH #LGHEX6
```

The Natural Optimizer Compiler **does not** compile the following statements:

- I/O statements (DISPLAY, WRITE, READ/WRITE WORK FILE).
- complex special statements like SEPARATE.
- calling statements like FETCH, PERFORM, CALLNAT, CALL.