What is Compiled and What is Not

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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:

- assignment statements (ASSIGN and MOVE)
- RESET
- arithmetic statements (COMPUTE, ADD, SUBTRACT, MULTIPLY, DIVIDE)
- conditional statements (IF, DECIDE)
- control statements (FOR, REPEAT)
- ESCAPE
- COMPRESS
- EXAMINE

  with 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 such as SEPARATE.
- statements that pass control to another programming object such as FETCH, PERFORM, CALLNAT, CALL.
- statements that perform database access (READ, FIND, HISTOGRAM, GET, UPDATE, DELETE, END TRANSACTION, BACKOUT TRANSACTION)

Note:
The options the Natural Optimizer Compiler provides cannot be used for specifying statements to be optimized as described in the Optimizer Options.