

2.2. Operations input and output, calculating arithmetic expressions

To set the initial values of the variables used in the program statement DATA. Operator DATA established the program after the revelation operator data types, such as, REAL, INTEGER.

DATA The operator places the data in the memory fast with short addresses, which greatly increases the speed of them.

DATA operator does not perform data conversion, so it can not perform calculation and arithmetic. The operator has the following syntax DATA: DATA list of variables / value list /

To set values to variables $A = 12.6$, $B = 16.0$, $C = 13.0 \cdot 10^{-3}$, $D = 16.8$, $E = 0.3$ DATA statement can be written as follows:

DATA A / 12.6 /, B / 16.0 /, C, D, E /13.E-3, 16.8, .3 /

Note that insignificant zeros (variables C and E) can not install but desyatychna point for values of type REAL must be present.

After the operator DATA program record operators performed, ie, those that change the values of variables and operators input and output.

Input and output operations provide human interface with the program. For console input and output using operators PRINT, WRITE, READ.

The operator takes the PRINT output values only on the screen. A universal operators WRITE, READ. WRITE operator displays data to the specified device, the operator READ reads data from the specified device. The two operators have the same syntax and logic, but symmetrical in the direction of data flow.

WRITE (M1, M2) output list

READ (M1, M2) list input

M1 pointing device for output or input; M2 indicates output or input method.

Simplified method vidbuvayetsya input and output on the console (keyboard and screen, respectively). It is used when a small amount of information and there are no requirements for its provision. In this case, the position of M1 and M2 is replaced with asterisks:

WRITE (*, *) list output

READ (*, *) list input

Example. Display the values of variables A and B.

```
WRITE (*, *) 'A =', A, 'B =', B
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Example. Enter the keyboard variables A and B for the program. Data entry using a dialog sold a couple of operators WRITE, READ.

```
WRITE (*, *) 'Input, please, values of A and B:'
```

```
READ (*, *) A, B
```

The separator values during typing with the keyboard is the spacebar or Enter.