

nanoBase 1997



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An old, but free xBase for Dos.¹

What is it

nanoBase ² is a Dos program that works essentially as:

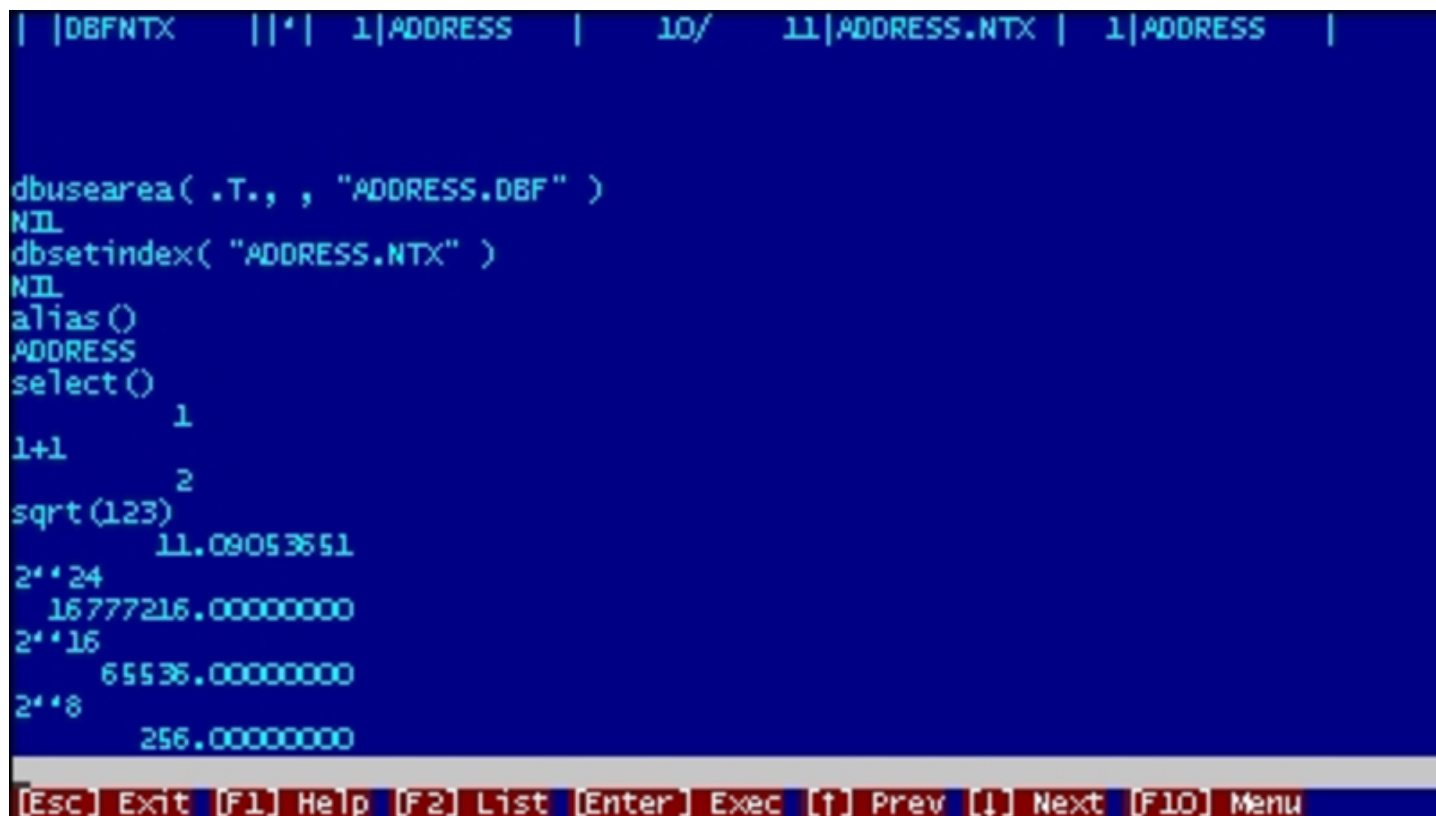
- a dot command line xBase,
- a menu driven xBase,
- a xBase program interpreter.

nanoBase 1997 is compiled in two versions: a small one to be used with old computers (x86-16 with 640 Kibyte RAM), and a second one to be used with better computers, at least i286 (or better) with 2 Mibyte RAM.



The dot command line

Figure u136.1. The dot line.



```
| |DBFNTX | |*| 1|ADDRESS | 10/ 11|ADDRESS.NTX | 1|ADDRESS |
dbusearea( .T., , "ADDRESS.DBF" )
NIL
dbsetindex( "ADDRESS.NTX" )
NIL
alias()
ADDRESS
select()
      1
1+1      2
sqrt(123)
      11.09053651
2^* 24
      16777216.00000000
2^* 16
      65536.00000000
2^* 8
      256.00000000
[Esc] Exit [F1] Help [F2] List [Enter] Exec [↑] Prev [↓] Next [F10] Menu
```

The dot command line is the first face of nanoBase, the one that appears starting the program normally. It recalls the dot line command of the old xBases.

Please note that **nanoBase recognise only expressions** (that is: no commands).

The menu

Figure u136.2. The file menu.

```
| DBFNTX | |*| 1|ADDRESS | 10/ 11|ADDRESS.NTX | 1|ADDRESS |
File Edit Report Htf Macro Info
Change Directory ...
File .DBF ▶ BF" )
File .NTX ▶
Alias ▶
Order ▶
Relation ▶
RDD Default ▶ Set Relation ...&
Clear Relation &

1
1+1
2
sqrt(123)
11.09053651
2^24
16777216.00000000
2^16
65536.00000000
2^8
256.00000000

Define a relation
[Esc] exit [↑]/[↓] cursor movement [Enter] select
```

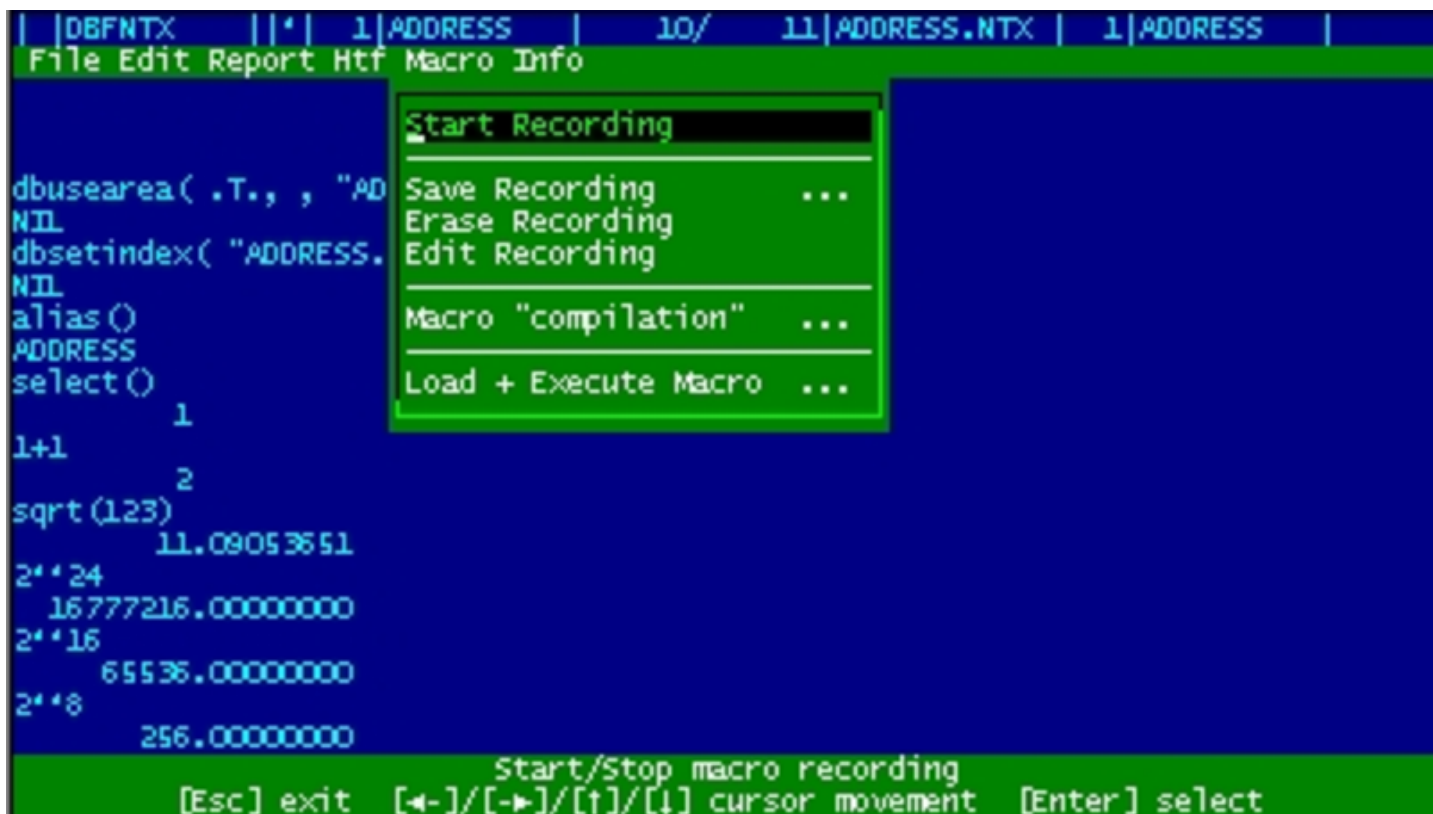
Pressing [*F10*] the nanoBase menu appears.

From this menu the operations are easier than writing all commands on a prompt line, but it is always possible to come back to the dot line to do an operation not available from the menu.

The macro recording, compiling and execution



Figure u136.3. The macro menu.



nanoBase is able to record some actions made with the menu and all what is correctly typed from the dot prompt. This may be the begin for a little program (called macro inside nanoBase) that can be executed as it is (ASCII), or compiled into another format, faster to execute.

Macros for nanoBase are made with a reduced set of the Clipper syntax. The statements recognised from nanoBase are:

```
PROCEDURE procedure_name  
    statements...  
    [RETURN]  
    statements...  
ENDPROCEDURE
```

```
DO PROCEDURE procedure_name
BEGIN SEQUENCE
    statements...
    [BREAK]
    statements...
END
```

```
DO CASE
CASE !Condition1
    statements...
[CASE !Condition2]
    statements...
[OTHERWISE]
    statements...
END
```

```
WHILE !Condition
    statements...
    [EXIT]
    statements...
    [LOOP]
    statements...
END
```

```
IF !Condition1
  statements...
  [ELSE]
  statements...
END
```

- the '**FOR**' loop is not available (too difficult to implement),
- there may be no user defined functions (code blocks may be created instead),
- procedure calls cannot transfer variables,
- there are only public (global) variables.

Beside these limitations, there are many added functions to the standard language that make the programming easier.

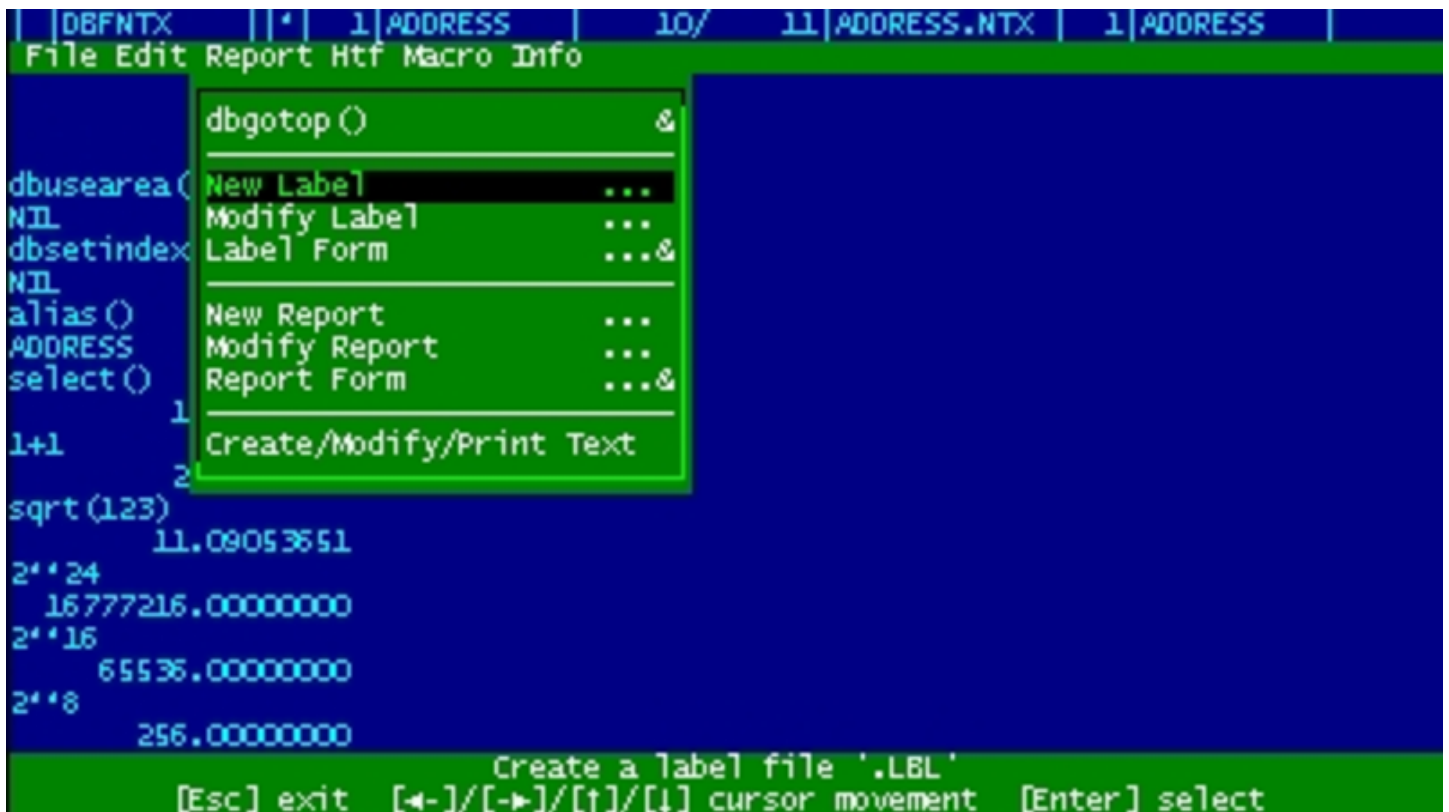
All you need is inside '**NB . EXE**':

- the utility to handle manually the data,
- the macro compiler,
- the macro executor.

The report system

«

Figure u136.4. The report menu.



nanoBase can handle label (‘.LBL’) and form (‘.FRM’) files in the dBaseIII format. Labels and forms may be created and edited inside nanoBase. Beside these old report system there is another way to make a little bit complicated reports without making a complex macro: it is called RPT.

A RPT file is a ASCII file with text mixed with code. The text may contain variables (usually a field or an expression containing fields). To make a complex report some work is needed, but surely less than the time needed to make a report program.

The main purpose of it was to be able to print text with variables (typically names and addresses) for every record of a particular ‘.DBF’ file. Now the RPT system makes something more.

The integrated text editor

«

Figure u136.5. The integrated text editor.



```
Doc ( ) UNTITLED.TXT 7:66 INS (No mouse, sorry :-)  
  
Address:  
    «alltrim(NAME)»  
    «alltrim(ADDRESS)»  
  
Here is an example of letter with insertion of expressions.  
  
[Esc] exit [F1] help [F10] menu
```

nanoBase contains an integrated text editor not particularly good, but very usefull for RPT files (as the expression insertion is very easy with the use of the [F2] key) and whenever there isn't any other editor there.

The internal documentation

«

Figure u136.6. The internal documentation.

```
c:\bin\NB.HLP
INKEY([<nSeconds>]) --> nInkeyCode

<nSeconds>      specifies the number of seconds INKEY() waits for
                 a keypress. You can specify the value in
                 increments as small as one-tenth of a second.
                 Specifying zero halts the program until a key is
                 pressed. If <nSeconds> is omitted, INKEY() does
                 not wait for a keypress.

INKEY() returns an integer numeric value from -39 to 386,
identifying the key extracted from the keyboard buffer. If the
keyboard buffer is empty, INKEY() returns zero. INKEY() returns
values for all ASCII characters, function, Alt-function, Ctrl-
function, Alt-letter, and Ctrl-letter key combinations.

<nInkeyCode> =  5      [Up arrow], [Ctrl]+E
<nInkeyCode> = 24      [Down arrow], [Ctrl]+X
<nInkeyCode> = 19      [Left arrow], [Ctrl]+S
<nInkeyCode> =  4      [Right arrow], [Ctrl]+D
<nInkeyCode> =  1      [Home], [Ctrl]+A
<nInkeyCode> =  6      [End], [Ctrl]+F
<nInkeyCode> = 18      [PgUp], [Ctrl]+R

[Esc] Exit  [↑] [Pag↑] [Ctrl]+[Pag↑] [←] Previous [Shift]+[F3] Search
[F1] Help  [↓] [Pag↓] [Ctrl]+[Pag↓] [→] Next      [F3] Repeat Search
```

nanoBase's documentation is translated also inside the HTF format: 'NB.HLP'. Pressing [F1], normally, a contextual piece of the manual appears.

Some standard functions have its own internal help, contained inside the '.EXE' file. This was made to help programming with nanoBase.

Download it

Here is the 1997 edition of nanoBase.

- EXE for small computers.

<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a1.zip>

<http://www.google.com/search?q=nbase7a1.zip>

- EXE for i286 with more than 2 Mibyte.
<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a2.zip>
<http://www.google.com/search?q=nbase7a2.zip>
- Runtime for small computers.
<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a3.zip>
<http://www.google.com/search?q=nbase7a3.zip>
- Documentation in many different formats.
<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a4.zip>
<http://www.google.com/search?q=nbase7a4.zip>
- Macro programming examples.
<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a5.zip>
<http://www.google.com/search?q=nbase7a5.zip>
- Source for version 96.06.16, without mouse support (1996).
<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a6.zip>
<http://www.google.com/search?q=nbase7a6.zip>
- Source for version 1997.
<ftp://ftp.simtel.net/pub/simtelnet/msdos/database/nbase7a7.zip>
<http://www.google.com/search?q=nbase7a7.zip>

Bugs and known problems



Here is the list of known bugs and problems.

- Comparison with floating point numbers may fail. It is better to convert numbers into string before comparing them.

- Macros may be contained inside ASCII files or a “compiled” ‘.DBF’ file. In the second case, when nanoBase executes the macro, a work area (the last available one) is used, so it should not be closed or the macro execution will be stopped. A ‘**dbclosetall()**’ will stop execution of the macro. In substitution of ‘**dbclosetall()**’, ‘**DBCLOSE()**’ should be used.
- To simplify the macro interpretation, lines such as this:

```
qqout( "You can't do that // you can't do that!" )
```

will generate an error as the interpreter will read only:

```
qqout( "You can't do that
```

- nanoBase works good also if you have a screen configuration that permits you to show more than the usual 80 columns and 25 lines, but the library used to handle the mouse is not able to work outside the 80×25 area.

¹ This material appeared originally at ‘<http://www.geocities.com/SiliconValley/7737/nanobase.html>’, in 1997.

² **nanoBase** GNU GPL

