

# **CNINDO**

## **Authors**

John A. Pople and David L. Beveridge (original code)  
Tytus Pikies and Aleksander Herman (reconstruction of the original code)

## **Homepage**

Currently does not exist.

## **Source**

Source code is available in the website of Gdańsk University of Technology.  
<http://www.kchn.pg.gda.pl/download/CNINDO.rar>

## **Reference**

John A. Pople, David L. Beveridge: Aproximate Molecular Orbital Theory, MCGRAW-HILL BOOK COMPANY, 1970.

## **Description & Use**

CNINDO performs CNDO and INDO calculations.

## **Quick start**

Structure of a typical input file includes (cartesian system, lengths in Angstroms):

```
COMMENT
[endo\indo]
[open\closed]
[number of atoms]
[charge]
[multiplicity]
[atomic number] [X] [Y] [Z] }
[atomic number] [X] [Y] [Z] } number of atoms
... }
```

Use in command line / shell:

cnindo (input file must be saved as FOR005 in the same location before)  
(in Windows command line)

or

`./cnindo` (input file must be saved as FOR005 in the same location before)  
(in Android shell).

The result FOR006 will appear in the same location.

## Program status

The current package contains CNINDO binaries of primary version compiled for x86 based Windows operating system.

## License

### CNINDO

The distribution is published as freeware at Mobile Chemistry Portal and Google Play Store with kind permission of Tytus Pikies.

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### MinGW

The Windows version contains few essential dynamic link libraries which are part of MinGW runtime.  
<http://www.mingw.org/>

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### **X11-Basic**

GUI of the Windows version was built using X11-Basic (by Markus Hoffmann) framework (GPL v.3). For correct functionality, SDL library (available under GNU LGPL license) is included in package.

<http://x11-basic.sourceforge.net/>

<https://www.libsdl.org/>

### **Advanced Installer**

The MSI installer for Windows was created using the Advanced Installer (Freeware edition).

<https://www.advancedinstaller.com/>

<https://www.advancedinstaller.com/top-freeware-features.html>

## **Contact**

Compilation of the source code for Android/Windows as well as the Android/Windows app development was done by Alan Liška (alan.liska@jh-inst.cas.cz) and Veronika Růžicková (sucha.ver@gmail.com), J. Heyrovský Institute of Physical Chemistry of the CAS, v.v.i., Dolejškova 3/2155, 182 23 Praha 8, Czech Republic.

Website: <http://www.jh-inst.cas.cz/~liska/MobileChemistry.htm>