

## How to install ANSYS14.5 /ANSYS15.0 in Ubuntu

With the ANSYS series software, such as CFX, the popularity of FLUENT software in the domestic university, more and more people begin to contact the ANSYS series software, but for the Ubuntu enthusiast, how can we in the operating system of his beloved also use ANSYS series software? Here, the Ubuntu long term support version of 12.04/14.04 as an example, describes how to install the ANSYS software in Linux system.

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### Tools / raw material

Install the ANSYS software package

The software of ANSYS key (license file)

### Methods / procedures

1 The installation environment preparation

1) if you have installed ANSYS, no matter what the reason is, or failed to install slightly, or other what reason, anyway you want to install ANSYS, you can enter the ANSYS installation directory, then according to below that of the operation:

Press ctrl+alt+t to open the terminal. To use the CD command to switch to the ANSYS installation directory

```
CD /usr/ansys_inc
```

And then clear the contents of the installation directory

```
Sudo RM -R * # clearance installation file the original
```

Relevant data next clear home directory in the configuration files and software

```
Sudo RM -r ~/.config/Ansys
```

```
Sudo RM -r ~/.cfx
```

```
Sudo RM -r ~/.ansys # removal of the original configuration file
```

2) the first two new directory "a, B" in the /mnt directory, then the ANSYS two ISO file mount in the two directory.

### Relevant

How to install Ubuntu vmware virtual machine system

How to install ubuntu12/linu Ubuntu learning [5]ubuntu r instructions to install:

How to install the Qt development environment under Ubuntu

Ansys14.5 download and installation tutorial

### Hot

Solve various garbled Ubuntu installation.

How to extract the data in the Kindle jailbreak and update jailbreak firmware more...

The Kindle jailbreak and update to escape from prison

How to clean up the garbage Ubuntu system

First use the CD command to switch to the MNT directory

```
CD /mnt
```

And then use the MKDIR command to the MNT directory to create a, B two folders

```
Sudo MKDIR a
```

```
Sudo MKDIR B
```

Two ISO files and then use the mount command to download a good are mounted to the new a, the B two directory

```
Sudo mount ANSYS DVD1 /mnt/a installation
```

```
Sudo mount ANSYS DVD2 /mnt/b installation
```

## 2 Install the ANSYS main file

1) use the CD command to switch to the installation directory in a terminal.

```
CD /mnt/a
```

In the terminal and type the following command, start the installation.

```
Sudo./INSTALL
```

PS: before installation to kill input method, or can not enter the hostname. in the case of IBus, kill off the input method for:

```
Sudo pkill ibus-daemon
```

After the installation is complete, restart method daemon input method for:

```
Sudo ibus-daemon -d
```

2) executive, will pop up graphics, Windows and the same operation, step by step implementation can

## 3 Install the license file

1 do not need to install the license server (\*^\_\_^\*) Oh, hee hee..... Don't need this. 2 the key folder in the license.dat and ansyslmd.ini two files directly onto the /usr/ansys\_inc/shared\_files/licensing/.

## 4 Modify the Linux environment variable ANSYS quick start of each component

Modify the hidden files.Bashrc your Ubuntu home directory. Add the following code in.Bashrc.

Method for typing in the terminal code: VIM.Bashrc

Open.Bashrc, paste the following code.

```
# add environment variables:
```

```
#ANSYS
```

```
PATH=/usr/ansys_inc/v145/ansys/bin:$PATH
```

```
Export PATH
```

```
#CFX
```

```
PATH=/usr/ansys_inc/v145/CFX/bin:$PATH
```

```
Export PATH
```

```
#FLUENT
```

```
PATH=/usr/ansys_inc/v145/fluent/bin:$PATH
```

```
Export PATH
```

```
#ICEM
```

```
PATH=/usr/ansys_inc/v145/icemcfd/linux64_amd/bin:$PATH
```

```
Export PATH
```

```
#WORKBENCH
```

```
PATH=/usr/ansys_inc/v145/Framework/bin/Linux64:$PATH
```

```
Export PATH
```

```
#TurboGrid
```

```
PATH=/usr/ansys_inc/v145/TurboGrid/bin:$PATH
```

```
Export PATH
```

```
#ANSYS Sevice Manager
```

```
PATH=/usr/ansys_inc/shared_files/licensing/lic_admin:$PATH
```

```
Export PATH
```

And then let it take effect in the terminal, type the following code

```
Source.Bashrc
```

### 5 ANSYS software components and quick start

After completing the steps above, we can by typing the command in the terminal and quick way to start the corresponding component. Such as type CFX5, launched CFX launcher, type fluent, launched fluent, a very convenient. Start all information of each component, as shown below:

Component terminal command in Ansys

Ansys CFX Launcher CFX5

CFX-pre cfx5pre

CFX-Solver Manager cfx5-solve

CFD-post cfdpost

Turborid cfx5tg

Fluent fluent

ICEM CFD icemcfd

Ansys APDL ansys145# is really in command mode

Ansys145 -g# graphics mode

Ansys Workbench runwb2

Use the get command to help command -help

### **Matters needing attention**

In this paper, the author has tested the installation method, in the Ubuntu12.04 and subsequent versions, can be properly installed and used, only ICEM CFD was indeed font file and appear little problem, mounting method is used for ansys14.5, ansvs15.0.

The Linux version of Ansys is installed in the Ubuntu is installed by default in /usr/ansys\_inc. If you change the default installation location, please modify the path specified in the ansyslmd.ini. Use VIM to open ansyslmd.ini, as follows

```
ANSYSLI_NOFLEX=1
```

```
LICKEYFIL=/usr/ansys_inc/shared_files/licensing/license.dat
```

Install the license file used by key, license.dat and ansyslmd.ini two files, can be obtained by search engine, please note, drag and drop the two files license.dat files do not modify.