CentOS 6.10 系统中安装 synopsys 公司的 Design Compiler 2012。

l.请掌握必要的 Linux 知识,否则你将获得成吨的困难。

Linux 系统: CentOS 6.10 64 位。

32 位系统不适用本教程。

Synopsys 软件包可从下载:链接:https://pan.baidu.com/s/lgflaCE3 密码:ds5r

hspice_vG-2012.06-SP1	2017/3/6 8:33	WinRAR 压缩文	1,213,235
installer_v2.8 (1)	2017/3/6 7:01	WinRAR 压缩文	13,447 KB
NewSynopsysLicmaker	2017/3/10 19:54	WinRAR 压缩文	1,139 KB
Scl_v11.4	2017/3/6 7:26	WinRAR 压缩文	261,593 KB
建 syn_vG-2012.06-SP2	2017/3/6 7:44	Win F 信文	478 729 KB
📜 vcs_vG-2012.09	2017/3/6 8:33	Win Win L	inuxide con

2.解压文件。

推荐 Windows 下使用管理员权限解压文件,Linux 下解压得安装软件支持 7z 以及 rar。当然我 是 linux 下解压的,windows 下解压可能有错,若有错则去 linux 下解压。

▶ 让 Ubuntu 12.10 支持 RAR 和 7Z 文件解压缩 http://www.linuxidc.com/Linux/2012-11/74223.htm

解压 install2.8 :

🗼 install_bin			文件夹
install.now	0	?	NOW 文件
installer	4,847	?	文件
setup.sh	496	?	SH 文件

这是 linux 下需要的文件,上述所有文件拷贝到 linux 下安装文件文件夹下的 install 文件夹。

Dc 解压:

J			本地磁盘
Syn_vG-2012.0	244,060,1	490,217,4	WinRAR 压
🔚 syn_vG-2012.0	279,746,5	?	WinRAR 压
🔚 syn_vG-2012.0	211,466,2	?	WinRAR 压
Checksum_info	507	A -?	文本文档
syn_INSTALL_R	11,157		2428)

拷贝三个压缩包即可,三个压缩包不用再解压。到 linux 安装文件文件夹下的 dc 目录。

Scl 解压:

scl_v11.4_amd	23,162,880	123,077,5	WinRAR 压缩文件	2012/9/25 15	4C48485
Scl_v11.4_com	4,096,000	?	WinRAR 压缩文件	2012/9/25 15	F79CE76
Scl_v11.4_linux	119,470,0	?	WinRAR 压缩文件	2012/9/25 15	839BE00
checksum_info	789	?	文本文档	2012/9/25 15	5158331
@ SCL_11.4_Admi	1,868,910	?	PDF 文件	2012/9/25 15	3D5F747
CL_11.4_Instal	116,665	?	PDF 文件	2012/9/25 15	AF8D9B.
CL_11.4_Relea	58,187	?	PDF 文件	2012/9/25 15	EE2FA1A
scl_INSTALL_R	11,132	?	文本文档	2012/9/25 15	1DD492.
scl_v11.4_wind	145,446,1	144,793,1	应用程序	20 (9, 25 5	PE115FQ

三个压缩包不用再解压。只需三个压缩包拷贝到 linux 安装文件文件夹下的 scl 目录。

3.Linux 系统下:

我的工作目录是 /home/kingstacker/workfile/synopsys;

在 synopsys 目录下新建四个文件夹:dc , scl , license ,installfile。dc 安装 design compiler ,

scl 安装许可程序 scl,license 放 synopsys.dat 文件。

在 installfile 文件夹下新建文件夹:dc , install , scl ,

并拷贝已解压文件。

### 复制刚刚解压文件到 installfile 文件夹下的 install:



4.安装软件包。

在终端中给 installfile 文件夹下的 install 文件夹中 setup.sh 权限并打开:

kingstacker@kingstacker:~/workfile/synopsys/installfile/install/installe

<u>F</u> ile	<u>E</u> dit	View	Search	Terminal	<u>H</u> elp
[king	stack	ker@ki	ngstacke	er instal	ler v2.8]\$ ls
insta	all bi	in in	staller	install	.now setup.sh
[king	stack	ker@ki	ngstacke	er instal	ler v2.8]\$ chmod +x setup.sh
[king	stack	ker@ki	ngstacke	er instal	ler v2.8]\$ ./setup_h
ypcat	: car	n't ge	t local	yp domai	n: Local domain na 🥄 n t 😭 🛛 🗙 公社



安装 dc:

Site ID Number:	undet energe of unit i Supercus linguage land certificate
Site ID Number: 000 Your site ID number is in the upper	nicht onmar of um r Suppress linance kau certificate
Your site ID number is in the upper-	Hoht mmar of ym r Synnneys linance key nertifinate
in you have a bable locating it, conta	ad your Synopsys sales representative.
Site Administrator:	
The site administrator is your site's issues. You can leave your own na	main contact for Synopsys licensing and other tool ame or type a different name.
Contact Information: king	istacker@(none)
Phone number and/or e-mail addre	ess of the site administrator.

Synopsys(R) In Enter the path to or CD/DVD-BCM	nstaller the source directory containing the EST (ftp)	Synopsys:
Click Next to type a full pat Source:	accept the default directory. Alternatively, you can browse for a d h. [home/kingstacker/workfile/synopsys/installfile/install/i	Browse
		U Xaneet
找到 dc 文件夹	(放三个 tar 的那个);	
Synopsys(R)	Installer	_>
Synopsys(R) In Enter the path to or CD/DVD-ROM	nstaller the source directory containing the EST (ftp) product files for this version	synopsys:
After you sele	ct a directory, click Done, then click Next.	
Source:	home/kingstacker/workfile/synopsys/installfile/install/l	Done
	in trail_bin	
	A	

			- ^
Synopsys(R)	nstaller		01/000010
Enter the path to or CD/DVD-ROM	the source directory containing product files for this version	ng the EST (ftp)	SALIDESA2
Click Next to type a full pa	accept the default directory. A th	Iternatively, you can browse for	a directory or
Source:	/home/kingstacker/work	file/synopsys/installfile/dc	Browse
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Synopsys(R)	Installer		SYNOPSYS'
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Synopsys(R) Select a version	Installer		Synopsys:
Select a version	Version	Available product(s)	Synopsys:
Select a version	Version	Available product(s) - syn	Synopsys:
Select a version	Version • G-2012.06-SP2	Available product(s) - syn	Synopsys:
Select a version	Version G-2012.06-SP2	Available product(s) - syn	Synopsys:
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Select a version	Version G-2012.06-SP2	Available product(s) - syn	Synopsys:
Select a version	Version G-2012.06-SP2	Available product(s) - syn	Synopsys:
Select a version	Version G-2012.06-SP2	Available product(s) - syn	Synopsys
Select a version	Version G-2012.06-SP2	Available product(s) - syn	Synopsys
Select a version	Version G-2012.06-SP2	Available product(s) - syn	SYNOPSYS

### Synopsys(R) G-2012.06-SP2 version



Select the platforms on which to install the products.



选择 amd64.

## Synopsys(R) G-2012.06-SP2 version

# SYNOPSYS'

Select the destination directory.

Install to:	/usr/synopsys/G-2012.06-SP2	Browse
		*

选择安装地方,我的是/home/kingstacker/workfile/synopsys/dc 上图不对注意,坐等安装完成,

×掉 installer 界面,别点 finish,可能出错。

安装 scl:

跟安装 dc 相似,

	Installer		_ ×
Synopsys(R) I	nstaller		evnoneve:
Enter the path to or CD/DVD-ROM	the source directory product files for this	containing the EST (ftp) version	2110h2A2
Click Next to type a full pat	accept the default dir th.	ectory. Alternatively, you can browse	e for a directory or
Source:	home/kingstack	er/workfile/synopsys/installfile/so	Browse
		*	Na Mancet www.Linuxidc.com
<ul> <li>Synopsys(R)</li> </ul>	Installer		_ ×
Synopsys(R) I Select a version.	nstaller		Synopsys'
	Version	Available product(s)	
	11.4	- scl	
			*





记得选择 amd64 位。安装完成退出。

5.破解生成 license 文件。在 windows 下破解生成 synopsys.dat 文件:

- 制作 license (注:各种 synopsys license 制作包大同小异)
  - ▶ 键入命令\$ ifconfig -a, 记录 eth0 的 MAC 地址
  - > 在 Windows (不一定是本机,也可以是其他电脑)中进行操作,关掉一切杀毒软件
  - ▶ 运行 license 制作包中的 LicGen.exe
  - ▶ 点开 Open 按钮,选择 synopsys.lpd,如图 5(a)所示
  - 如图 5(b)所示在两处 Host ID->Custom 键入 eth0 的 MAC 地址,点击 Generate 生成 (注意应去掉冒号:) 的内容 Save 成 synopsys.dat (如果save不可点击,需要把synopsys.src中的所有2019的时间改为2029)
  - ▶ 将生成的 synopsys.dat 文件保存到 Synopsys SSS Feature Keygen 文件夹中
  - 打开 cmd, 进入 Synopsys SSS Feature Keygen 目录后运行 sssverify.exe synopsys.dat, 复制生成的 SECRET DATA, 如图 5(c)和图 5(d)
  - 打开 Synopsys SSS Feature Keygen 文件夹中的 KeyGen.exe, 如图 5(e)所示, 键入 SECRET DATA 和 eth0 的 MAC 地址, 生成 license.dat
  - 如图 5(f)所示,将 license.dat中的 FEATURE SSS 内容粘贴到 synopsys.dat中,如果 synopsys.dat 中存在则替换
  - 如图 5(g)所示, 在相应位置修改 localhost 和 snpsImd path;其中在 ubuntu 中键入命 令\$ hostname 可获取 localhost, 而 snpsImd 后面的链接地址设置成绝对路径 ~/eda/synopsys/scl/linux/bin/snpsImd (附录 A 为 synopsys.dat 更改后的部分内容)

EFA FlexLM	License generator	Ē	4	EFA Flex	.M Licen	se genera	ator	,EFA
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nn a fle		Not Re	adu a					Frida

(a) 选择 Synopsys.lpd

(b) 生成 synopsys.dat



 C://index/system32/cmd.exe
 ×

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Enter SSS/SSST Info	mation and Press <ger< td=""><td>erate&gt;!</td></ger<>	erate>!
07e4 0000 0e66 0000 VENDOR STRING Enter SSS/SSST Info	nation and Press <ger< td=""><td>000c2960189e</td></ger<>	000c2960189e

### (e) 生成 license.dat

#Synopsys SCL v10.9.1 License File, Generated by Team ZWT 2006. #For EVALUATION only. If you like this software, BUY it!



NOTICE="Licensed to mammoth//ZWT 2006 [PLEASE DO NOT DELETE THIS SSS KEY]" SN=RK:1978-0:001224:0 START=1-jan-2006 PACKAGE EFA Synopsys 1 snpsimd 2019.12 /0D09021D4097528EC8B COMPONENTS-A54SXA A7 AARKOS-A ace core aceda acehdl acehdl/beta status acehdl/

(g) 修改后的 synopsys.dat

图 5 license 制作过程

验证 license

- ▶ 将制作好的 license 拷贝到~/eda/synopsys/license 目录下,同时终端进来该目录
- ▶ 如图 6 所示, 键入命令\$ ~/eda/synopsys/scl/linux/bin/sssverify synopsys.dat, 出现 PASSED 表示 OK



图 6 验证 license

贴下本人此文件,用户名 kingstacker,网卡号 e03f49de0ee3.第二行目录为 snpslmd 文件的路

径,请比对更改前两行,



把 synopsys.dat 文件放到 license 文件夹。

#### 6.编辑用户环境变量:

🔻 ki	ngsta	icker@	kingsta	cker:/		<u> </u>
Eile	Edit	View	Search	Terminal	Help	
[king	stac	ker@ki	ngstacke	er /]\$ ge	dit /home/kingstacker/.bashrd	

贴本人 bashrc 文件,请对照更改,别瞎改,系统可能会炸的,如果在 windows 上改,需要在

notepad++里把行尾符变换为 Unix 行尾符:

# .bashrc

# Source global definitions

if [ -f /etc/bashrc ]; then

./etc/bashrc

fi

# User specific aliases and functions

#synopsys tool list configuration

#synopsys\_home

export synopsys\_home="/home/kingstacker/workfile/synopsys"

#dc\_home

export PATH="\$PATH:\${synopsys\_home}/dc/amd64/syn/bin"

#hspice\_home

```
export PATH="$PATH:${synopsys_home}/hspice/bin"
```

#dve

export PATH="\$PATH:\${synopsys\_home}/vcs/gui/dve/bin"

#vcs\_home

export PATH="\$PATH:\${synopsys\_home}/vcs/bin"

#scl\_home

export PATH="\$PATH:\${synopsys\_home}/scl/amd64/syn/bin"

#license

export SNPSLMD\_LICENSE\_FILE="/home/kingstacker/workfile/synopsys/license/synopsys.dat"

export LM\_LICENSE\_FILE="/home/kingstacker/workfile/synopsys/license/synopsys.dat"

export DISPLAY=unix:0

#set home directory

export SYNOPSYS="/home/kingstacker/workfile/synopsys"

export VCS\_HOME="/home/kingstacker/workfile/synopsys/vcs"

export DVE\_HOME="/home/kingstacker/workfile/synopsys/vcs/gui/dve"

export VCS\_ARCH\_OVERRIDE="linux"

7.更新 bashrc 文件:

🛨 kingstacker@kingstacker:/							_ 🗆 X
<u>F</u> ile	<u>E</u> dit	View	Search	Terminal	Help		
[king	stacl	ker@ki	ngstacke	er /]\$ so	urce /	home/kingstacker/.bashrc	*

8.重启电脑,ok。

9.打开 dc:

· KINGSWEKEI (KINGSWEKEI)

File Edit View Search Terminal Help '147519592 147521926 147519243 256620307728' [kingstacker@kingstacker /]\$ dc shell Design Compiler Graphical DC Ultra (TM) DFTMAX (TM) Power Compiler (TM) DesignWare (R) DC Expert (TM) Design Vision (TM) HDL Compiler (TM) VHDL Compiler (TM) DFT Compiler Library Compiler (TM) Design Compiler(R) Version G-2012.06-SP2 for RHEL64 -- Aug 31, 2012 Copyright (c) 1988-2012 Synopsys, Inc. This software and the associated documentation are confidential and proprietary to Synopsys, Inc. Your use or disclosure of this software is subject to the terms and conditions of a written licen re between you, or your company, and Synopsys, Inc. www.Linuxidc.com

打开图形界面:

🗢 kingstacker@kingstacker:/	_ 🗆 ×						
<u>File Edit View Search Terminal Help</u>							
DC Ultra (TM) DFTMAX (TM) Power Compiler (TM) DesignWare (R) DC Expert (TM) Design Vision (TM) HDL Compiler (TM)	ĺ						
DFT Compiler DFT Compiler Library Compiler (TM) Design Compiler(R) Version G-2012.06-SP2 for RHEL64 Aug 31, 2012							
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This software and the associated documentation are confidential and proprietary to Synopsys, Inc. Your use or disclosure of this software is subject to the terms and conditions of a written license agreement between you, or your company, and Synopsys, Inc.							
Initializing Error: could not open command log file "//command.log" (00-015) dc_shell> start_gui dc_shell> dc_shell>	X公社						

E Applications	s Places System	. 6	2						++ 0 4	Wed May 17, 22:10	kingstacker
- Design Visio	on = TopLevel.1										_ D X
the Edit View	Select Highlight	List Herar	thy Design An	ributes Scher	natic Timing Test	Power Window	Help				
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