

SINUMERIK 840D Training

Topic: PCU50.3系统的备份与还原 Author : Company : SLC A&D RE SHA

PCU50.3 硬件配置 SINUMERIK – Numerical controller from Siemens.

	处理器	操作系统	RAM (DDR2)	订货号
SINUMERIK PCU50.3 -C	Celeron M 1.5 Ghz	WinXp ProEmbSys	512 MB	6FC5210-0DF31-2AA0
SINUMERIK PCU50.3 -P	Pentium M 2.0 GHz	WinXp ProEmbSys	1024 MB	6FC5210-0DF33-2AA0

PCU50.3 接口 SINUMERIK – Numerical controller from Siemens.



特点:

1、没有PS/2及键盘接口,标准串口

2、DVI显示器

3、双10/100M网口。#10(二号网口)为内网接口,#9为(1号网口)外网接口

4、#6为DP/MPI 接口

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5、#7、#8 USB2.0 接口

6、#5 CompactFlash card插槽(CF卡插槽)

PCU50.3 主板配置 SINUMERIK – Numerical controller from Siemens.

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PCU50.3 硬盘 SINUMERIK – Numerical controller from Siemens.



PCU50.3 硬盘分区

SINUMERIK - Numerical controller from Siemens.

EMERGENCY (C:)	TMP (D:)	SYSTEM (E:)	USER (F:)
0,5 GB	15 GB	10 GB	ca. 12 GB

安装软件:

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- 1、C 盘的操作系统 WinPE 2005,其他软件配置与PCU50
- 2、E 盘的操作系统 Windows XP Professional SP2
- 2、Symantec Ghost 版本V8.2 (包含Ghost Explorer)
- 3、工具软件目录: E:\Tools

PCU50.3 双网口IP地址分配

SINUMERIK – Numerical controller from Siemens.



Eth 1 is preset as a default DHCP client for connection to a company network. Eth 2 is preset as a SINUMERIK DHCP server for connection to a

system network. Eth 2 is preset to the fixed IP address 192.168.214.241.

XP系统下:

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- #1 以太网口,系统默认设定:自动获得IP地址或自定义IP地址,
 - PCU50.3的硬盘备份需要连接到此网口。
- #2 以太网口,系统默认设定:固定IP地址192.168.214.241,用于840D
 - sl系统内部连接,不可随意设定IP地址(也可用于备份)。

WINPE 系统简介 SINUMERIK – Numerical controller from Siemens.

WinPE (Windows预装环境, Windows Preinstallation Environment),基于在保护模式下运行的 WindowsXP 个人版内核,是一个只拥有较少(但是非常核心)服务的Win32子系统。这些服务为Windows安装、实现网络共享、自动底层处理进程和实现硬件验证。

特点:

1、WinPE 所包含的硬件诊断和其他预安装工具都支持标准的 WindowsXP 驱动,方便地支持XP下使用的硬件设备。如U盘等。。。。。。

2、定制专用的应用程序,实现硬件检测、系统安装初始化等工作。

3、支持U盘、CD-ROM、硬盘启动。启动之后,可完全加载到系统内存中,不需要存储介质。 限制:

1、为了防止将它用作盗版操作系统,在连续使用24小时后WinPE将自动退出并重启。

2、你可从 WinPE 计算机通过网络直接访问服务器和共享,但不能从网络上的另一个位置访问WinPE 计算机上的任何文件或文件夹。WinPE 通过 TCP/IP 及其上的 NetBIOS 获得到达文件服务器的网络连接,不支持其他方法(如IPX/SPX网络协议)。

PCU50.3 硬盘的恢复和备份前准备工作

SINUMERIK - Numerical controller from Siemens.

1、PC/PG的设置

样);

1.1 控制面板----用户帐户----创建一个用户,例如名字为AUDUSER,密码为SUNRISE(可以不一



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PCU50.3 硬盘的恢复和备份前准备工作

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PCU50.3 硬盘的恢复和备份前准备工作

SINUMERIK - Numerical controller from Siemens.

1、PC/PG的设置

1.2关闭PC/PG的防火墙;



PCU50.3 硬盘的恢复和备份前准备工作 SINUMERIK – Numerical controller from Siemens.

1、PC/PG的设置

1.3 TCP/IP地址为192.168.214.240,子网掩码255.255.255.0;

Local Area Connection Sta	tus ? 🔀	🚣 Local Area Connection Properties 🔹 🤶
General Support		General Authentication Advanced
Connection		Connect using:
Status:	Connected	Broadcom NetXtreme 57xx Gigabit Cc Configure
Duration:	04:22:17	
Speed:	100.0 Mbps	This connection uses the following items:
		SIMATIC Industrial Ethernet (ISO)
		✓ Trass Protocol (IEEE 802.1x) v3.4.9.0
		Internet Protocol (TCP/IP)
Activity		
Sent —	Received	Install Uninstall Properties Description
Packets: 176,510) 181,513	Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
		Show icon in notification area when connected
Properties Disable		Notify me when this connection has limited or no connectivity
		OK Cancel
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1、PC/PG的设置

1.3 TCP/IP地址为192.168.214.240,子网掩码255.255.255.0;

Internet Protocol (TCP/IP) Prope	rties 🛛 🕐 🔀
General	
You can get IP settings assigned autom this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports ask your network administrator for
Obtain an IP address automatically	y IIII
O Use the following IP address: ──	
<u>I</u> P address:	192 . 168 . 214 . 240
S <u>u</u> bnet mask:	255.255.255.0
<u>D</u> efault gateway:	
○ 0 <u>b</u> tain DNS server address autom	atically
• Use the following DNS server add	resses:
Preferred DNS server:	· · ·
<u>A</u> lternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

PCU50.3 硬盘的恢复和备份前准备工作

SINUMERIK – Numerical controller from Siemens.

1、PC/PG的设置

1.4在PC/PG上设置一个名字为PCU50的共享文件夹,将只读属性去掉,并允许网络用户更改这个文件夹。

	PC050 Properties	
🚔 backup	General Sharing Security Customize	Permissions for PCU50
File Edt View Favorites Tools Help Image: Comparison of the state of the	You can share this folder with other users on your network. To enable sharing for this folder, click Share t folder. O Do not share this folder Share this folder Share name: PCU50 Comment: User limit: O Maximum allowed Allow this number of users: To set permissions for users who access this folder over the network, click Permissions. To configure settings for offline access, click Caching.	Share Permissions Group or user names: Image: Everyone Add Remove Add Remove Permissions for Everyone Allow Deny Full Control Image Read Image
Start De D C - C To A D Inbox C Gmai-i	Windows Firewall is configured to allow this folder to be shared with other computers on the network. <u>View your Windows Firewall settings</u> OK Cancel <u>Appl</u>	OK Cancel Apply

PCU50.3 硬盘的恢复和备份前准备工作

SINUMERIK – Numerical controller from Siemens.

1、PC/PG的设置

1.4在PC/PG上设置一个名字为PCU50的共享文件夹,将只读属性去掉,并允许网络用户更改这个文件夹。

	PCUDU Prope	rties	PCU50 Pro	perties	
🖻 backup	General Shar	ing Security Customize	General S	haring Security Customize	
File Edit View Favorites Tools Help					
🕞 Back 🝷 💿 🕤 🏂 🔎 Search 🎼 Folders 🛄 🗧	2	PCU50	- 27	PCU50	
Address 🔁 D:\backup					
File and Folder Tasks Open Image: Rename this folder Image: Rename this folder Image: Rename this folder Explore Image: Rename this folder Search Image: Rename this folder Search	with EPS Type: Location:	File Folder D:\backup	Type: Location:	File Folder D:\backup	
Delete this folder Add to "PCU50.rar" Compress and email	Size:	U bytes	Size:	U bytes	
Other Places	^{and email} , Size on disk:	0 bytes	Size on di	sk: O bytes	
data (D:) Send To My Documents My Computer Cut Copy	Contains:	0 Files, 0 Folders	Contains:	0 Files, 0 Folders	
My Network Places Create Shortcut Delete Rename	Created:	09三月 2009, 14:24:28	Created:	09三月 2009, 14:24:28	
Properties	Attributes:	Read-only Advance	ed Attributes:	Read-only	A <u>d</u> vanced
		<u>H</u> idden		<u>H</u> idden	
		OK Cancel	A	ОК	Cancel <u>A</u> pply
🚰 start 🔰 🖄 🞯 🧭 🔇 👿 ờ 🔟 Inbox 🛛	🍠 Gmail - I				

PCU50.3 硬盘的恢复和备份前准备工作 SINUMERIK – Numerical controller from Siemens.

2、用交叉网线联结PC/PG和PCU50.3的Network Port2(靠近底部的那个网口,固定IP);在PC上 能够看见连接状态

🕹 Local Area Cor	nection Status	? 🛛
General Support		
Connection		
Status:		Connected
Duration:		04:26:28
Speed:		100.0 Mbps
- Activity	Sent —	Received
Packets:	176,787	181,736
Properties	<u>D</u> isable	
		<u>C</u> lose

PCU50.3 硬盘的恢复和备份前准备工作

SINUMERIK – Numerical controller from Siemens.

- 3、可以方便地在PCU50.3的Service Logon中打开"我的电脑",在地址栏中输入PC/PG共享文件夹名
- 字(如<u>\\ZSJ\PCU50</u>或者<u>\\192.168.214.240\PCU50</u>),则里面共享的内容会立即显示在**OP**上

下图为访问\\140.231.223.48\PCU50 文件夹

Ide Edit Yiew Fayorites Tools Help Back Image: Search Image: Search Image: Folders Image: Search Idress Image: Yier Search Image: Search Image: Search Idress Image: Search Image: Search Idress Image: Search Image: Search Idress <th>ile Edit View Favorites Iools Help</th> <th>pcu50 on 140.231.223.</th> <th>48</th> <th></th> <th></th> <th></th>	ile Edit View Favorites Iools Help	pcu50 on 140.231.223.	48			
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PCU50.3 硬盘的恢复和备份(1) SINUMERIK - Numerical controller from Siemens.

1、系统启动时,当桌面左下角出现系统版本(例如V07.03.05.00)时,按3键。依屏幕 操作进入XP桌面。或使用USB启动盘启动。



PCU50.3 硬盘的恢复和备份(1)

SINUMERIK – Numerical controller from Siemens.

2、输入用户名、密码进入桌面

User name: AUDUSER

User password: SUNRISE



PCU50.3 硬盘的恢复和备份(1)

SINUMERIK - Numerical controller from Siemens.

3、运行桌面ServiceCenter。





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PCU50.3 硬盘的恢复和备份(1) SINUMERIK – Numerical controller from Siemens.

4、运行桌面ServiceCenter。



Start Backup/Restore console.	Start
Set network options for Backup/Restore.	Settings
Show Backup/Restore log file from the last action.	Show File
	Fxit

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PCU50.3 硬盘的恢复和备份(1)

SINUMERIK - Numerical controller from Siemens.

5、选择第二项,设置网络属性。

首先设置Network Port(一般使用Port 2,靠近底部的那个网口),选择Ethernet

2(System network), TCP/IP缺省地址为192.168.214.241, 子网掩码255.255.255.0



PCU50.3 硬盘的恢复和备份(1)

SINUMERIK – Numerical controller from Siemens.

6、选择第一项,系统重新启动后进入服务系统Service Center。

Start Backup and Restore console---Start---PCU50.3自动重新启动进入备份和恢复 模式。

Start Backup/Restore console.	Start
Set network options for Backup/Restore.	Settings
Show Backup/Restore log file from the last action.	Show File
	Exit

PCU50.3 硬盘的恢复和备份(1) SINUMERIK – Numerical controller from Siemens.

7、备份整个硬盘选择第二项, Backup-Restore a Disk Image---Next---Backup(以此为例)

还原整个硬盘选择第二项,Backup-Restore a Disk Image---Next---Restore

Se	rviceCenter Backup-R	testore		X
	Backup-Re	store a local Partition Image		
	C Backup-Re	store a Disk Image		
	C Restore the	e Rollback Image		
	C Restore the	e Emergency Image		
	C Image Orga	mizer		- Bartin
	C ADDM Back	kup-Restore		
	Show Log File	Network Settings	Launch program	J
		< Back Next >	Reboot	

PCU50.3 硬盘的恢复和备份(1) SINUMERIK – Numerical controller from Siemens.

8、ADD NETWORK Drive

Share: <u>\\ZSJ\PCU50</u> (PC机的计算机名称及共享文件夹名称,计算机名称在我的电脑属性里可以查到)

User Name: AUDUSER (PC机的用户名) Password: SUNRISE (PC机的密码)

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OK

estination Drives		Add Natwork Driva
Add Networ	'k Drive	
Share:	WZSJ/PCU50	(e.g. \vr123\vrages)
User name:	AUDUSER	(e.g. Domain\Username)
Password:	****	
ne	ОК	Cancel
po ntoos.gres	-	(e.g. rolders lie.gno)

PCU50.3 硬盘的恢复和备份(1) SINUMERIK – Numerical controller from Siemens.

9、出现一个备份提示信息界面---Finish。



PCU50.3 硬盘的恢复和备份(1) SINUMERIK – Numerical controller from Siemens.

> 10、自动启动GHOST8.2开始将硬盘全部内容复制到计算机ZSJ的PCU50文件夹中。 HMI_BASE V08.00.02.01+HMI_ADV V06.04.18硬盘完整镜像文件容量约为2.5GB,时 间10min以内。

Progress Indicator	1			
0%	25%	50%	75%	100 2
Statistics Percent complete Speed (HB/min) HB copied HB remaining Time elapsed Time remaining	2 453 121 3995 0:16 8:46)	7
Detais Connection type Source Destination Current partition Durrent file	Local Local drive [1], 38 Local file 0:\PC050 1/4 Type? [NTFS], S 156 ServSysias	8 15-4 HB 33 .610 ₂₂₄₅ 502 HB, EMERGENCY		
		(S sym	antec.	



SINUMERIK 840D Training

拆硬盘操作

PCU50.3 硬盘的备份(2)

SINUMERIK – Numerical controller from Siemens.

1、对于作为备件更换的PCU50或者新硬盘(IDE接口),里面没有安装任何操作系统,故需首先拆下 PCU50的硬盘,



PCU50.3 硬盘的备份(2) SINUMERIK – Numerical controller from Siemens.

2、将硬盘连接到IDE硬盘盒上,作为PC机的移动硬盘,连接上PC机 注意:PCU50.3的硬盘接口为SATA,移动硬盘接口必须也是SAT接口,否则需要转接 前提该硬盘没有非法关机,即开机进入windows的时候,不需要自检)



PCU50.3 硬盘的备份(2) SINUMERIK - Numerical controller from Siemens.

3、打开PC,运行GHOST软件,可以在DOS环境下,也可以利用windows版的GHOST软件直接运行 在windows下,注意GHOST软件的版本,下面就windows版GHOST软件11.0举例



PCU50.3 硬盘的备份(2)

SINUMERIK – Numerical controller from Siemens.

3、在PC机上运行GHOST32.EXE软件

bout Symantec Gho	st
Product Manufacturer	Symantec Ghost 11.0.2 Corporate Edition Symantec Corporation Copyright (C) 1998-2007 Symantec Corporation. All rights reserved. Symantec, the Symantec Logo are trademarks or registered trademarks of Symantec Corporation or its affiliates in the U.S. and other countries. Other names may be trademarks of their respective owners. The Licensed Software and Documentation are deemed to be "commercial computer software" and "commercial computer software documentation" as defined in FAR Sections 12.212 and DFARS Section 227.7202.
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PCU50.3 硬盘的备份(2) SINUMERIK – Numerical controller from Siemens.

3、在PC机上运行GHOST32.EXE软件

iyma	intec Ghost 1	1.0.2	Copyright (C) 1998-2007 Symantee Corporation, All rights reserved.
	Local		
	Peer to peer	•	
	<u>G</u> hostCast	•	
	Options		
antec	<u>H</u> elp		
Sym.	Quit		
			Symantec.
3.80	V VILLEI VERSE	2015 12	a dahar saar madahar saar madahar saar madahar saar madahar saar madahar saar saar saar saar saar saar saar

PCU50.3 硬盘的备份(2) SINUMERIK – Numerical controller from Siemens.

4、全盘备份,选择 Local——Disk——To Image



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PCU50.3 硬盘的备份(2)

SINUMERIK – Numerical controller from Siemens.

5、选择要备份的盘,例如 <u>376319</u>84510 9729 255

OK进入,注意不要选错盘,一般第一个为PC的硬盘,后面为PCU的硬盘

manrec Sel	ect local sou	Copyright () irce drive by c) 1998-20 licking on t	07 Symantec he drive numb	Corporation, I er	ill rights reserved	
	Drive	Size(MR)	Tune	Culinders	Heads	Sectors	
	1	76319	Basic	9729	255	63	
	2	45	Basic	5	255	63	
	3	76319	Basic	9729	255	63	
				(S) sy	mantec		

PCU50.3 硬盘的备份(2) SINUMERIK – Numerical controller from Siemens.

6、选择备份文件存放的路径及名称(例如: D:/GHOST20080919.GHO)点击SAVE

Ghost32 11.0	
Symantee Bhost 11.0.2 Copyright CD 1998-2007 Symantee Corporation. All rights reserved. File name to copy image to Iook jni Di 1.2: IDatal NTFS drive State Data Data Data Data	
Current path is DAX#GHO	

PCU50.3 硬盘的备份(2) SINUMERIK – Numerical controller from Siemens.

7、选择一种备份方式后,即进入备份状态,等待备份完成提示

<u>N</u> ∘	<u> </u>	High

Fast

快速备份,时间短,备份的文件占用 空间大

High

高质量压缩备份,时间长,备份的文 件占用空间相对小

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òymantec Ghost 11.0.2	Copyright (C) 1998-200)7 Symantec Corpor	ation. All rights reserve	:d.
Progress Indicator				
0%	25%	50%	75%	100%
Statistics Percent complete Speed (MB/min) MB copied MB remaining Time elapsed Time remaining Details Connection type Source Destination Current partition Current file	Local Local drive [3], 76319 H Local file D:\20080919.(1/4 Type:o [Fat32], Size: 200	18 5HO 102 MB, DATA		7
		S syma	ntec.	

PCU50.3 硬盘的恢复(2)

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PCU50.3 硬盘的恢复(2) SINUMERIK – Numerical controller from Siemens.

2、将硬盘连接到IDE硬盘盒上,作为PC机的移动硬盘,连接上PC机 注意:PCU50.3的硬盘接口为SATA,移动硬盘接口必须也是SAT接口,否则需要转接 前提该硬盘没有非法关机,即开机进入windows的时候,不需要自检)



PCU50.3 硬盘的恢复(2) SINUMERIK – Numerical controller from Siemens.

3、可以按照分区西门子出厂设置分区格式化,目前市场上PCU50.3硬盘容量为10G和40G

40G硬盘分区为

[Partition1] Size=502M

[Partition2] Size=2047M

[Partition3] Size=3506M

[Partition4] Size=32091M

10G硬盘分区为

[Partition1] Size=502M

[Partition2] Size=2047M

[Partition3] Size=3506M

[Partition4] Size=3529M

也可以在ghost的时候进行分配

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3、打开PC,运行GHOST软件,可以在DOS环境下,也可以利用windows版的GHOST软件直接运行 在windows下,注意GHOST软件的版本,下面就windows版GHOST软件11.0举例



PCU50.3 硬盘的备份(2)

SINUMERIK – Numerical controller from Siemens.

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Product Manufacturer	Symantec Ghost 11.0.2 Corporate Edition Symantec Corporation Copyright (C) 1998-2007 Symantec Corporation, All rights reserved, Symantec, the
	Symantec Logo are trademarks or registered trademarks of Symantec Corporation or its affiliates in the U.S. and other countries. Other names may be trademarks of their respective owners.
	The Licensed Software and Documentation are deemed to be "commercial computer software" and "commercial computer software documentation" as defined in FAR Sections 12.212 and DFARS Section 227.7202.
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PCU50.3 硬盘的备份(2) SINUMERIK – Numerical controller from Siemens.

3、在PC机上运行GHOST32.EXE软件

hos	rt 32 11.0		
iyma	ntec Ghost 11.I	J.2 Copyright (C) 1998-2007 Symantee Corporation. All rights rese	rved.
	Local Peer to peer	•	
Symanteo	Options Help Quit		
		Symantec.	
7.20	y na citette stav	FND ZARBESTOVING ZARBESTOVING ZARBESTOVING ZARBESTOVING ZARBESTOVING ZA	ene da pro-intentada

PCU50.3 硬盘的恢复(2) SINUMERIK – Numerical controller from Siemens.

4、还原GHO文件,全盘还原,选择 Local——Disk——From Image

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PCU50.3 硬盘的恢复(2) SINUMERIK – Numerical controller from Siemens.

5、选择以前的备份文件,例如WINXP7.3_HMI6.4.23.GHO,点击open

Image file na	me to restore fro	m	vranom ini rignis re	served.
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SINUMERIK – Numerical controller from Siemens.

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5、选择要还原的硬盘(外接的移动硬盘),千万不要选错,下图显示电脑目前识别到的硬盘数目,为3

个硬盘,外接的为, _________75319 Basic 9729 255 63 光标选中,点击"OK" Ghost32 11.0 Symantec Ghost 11.0.2 Copyright (C) 1998-2007 Symantec Corporation. All rights reserved. Select local destination drive by clicking on the drive number Size(MB) Type Cylinders Heads Sectors Drive 76319 Basic 9729 255 63 45 Basic 5 255 63 76319 9729 255 Basic 63 0K Cancel symantec.

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PCU50.3 硬盘的恢复(2) SINUMERIK – Numerical controller from Siemens.

5、选择要还原的硬盘(外接的移动硬盘),千万不要选错,下图显 个硬盘,外接的为,76319 1850 9729 255 63	示电脑目前识别到的硬盘数目,为3 】 光标选中,点击 "OK"
Statistical Section 11.0.2 Copyright (2) 1998-2007 Symantice Corporation, fill rights reserved. Pertination Drive Details	本閣显示的为备份文件的分区要求,以及新硬盘的容量及自动分区空间(基本为等倍扩容),可以修改。 点击"OK"即可,等待提醒还原成功提示。

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