

PCU50 的整盘备份

本文只针对操作系统为 **Windows XP** 版本的 **PCU50**

PCU50 启动硬件自检完后，出现下面文字时，按向下光标键

OS Loader V4.00

Please select the operating system to start:

SINUMERIK

Use ↑ and ↓ to move the highlight to your choice.
Press Enter to choose.

光标条停在”SINUMERIK”下方的空白处，如下图，按回车键

OS Loader V4.00

Please select the operating system to start:

SINUMERIK

Use ↑ and ↓ to move the highlight to your choice.
Press Enter to choose.

PCU50 会进入到服务画面，如下图

SERVICEMENU V02.03.11

PLEASE SELECT:

1 Install / Update SINUMERIK System

2 SINUMERIK Tools and Options

3 DOS Shell

4 Start Windows (Service Mode)

5 SINUMERIK System Check

7 Backup/ Restore

8 Start PC Link

9 Reboot (Warmboot)

A Actionlog

Your choice [1,2,3,4,5,6,7,8,9,A] ?

其中选项“7”就是 PCU50 备份和恢复项，选择 7（按键盘上数字键 7），PCU 会提示输入密码，输入密码”SUNRISE”。

SERVICEMENU V02.03.11

PLEASE SELECT:

1 Install / Update SINUMERIK System

2 SINUMERIK Tools and Options

3 DOS Shell

4 Start Windows (Service Mode)

5 SINUMERIK System Check

7 Backup/ Restore

8 Start PC Link

9 Reboot (Warmboot)

A Actionlog

Your choice [1,2,3,4,5,6,7,8,9,A] ? 7

passwd:

按回车后，显示如下：

```
GHOST-Support for Disks with more than 2GB

PLEASE SELECT:

1 Harddisk Backup/ Restore with GHOST
4 Partitions Backup/ Restore with GHOST (locally)
5 ADDM Backup/Restore

9 Return to Main Menu

Your choice [1,4,9]?
```

其中：

选择 1----利用 GHOST 进行整个硬盘的备份和恢复

选择 4----利用 GHOST 进行硬盘分区的备份和恢复

选择 5----

选择 9----返回主菜单

PCU50 整盘备份

选择 1 后，屏幕显示如下：

```
GHOST Connection Mode : LOCAL/NETWORK
GHOST Version          : 7.5 (build=335)

PLEASE SELECT:

1 Configure GHOST Parameters
2 Harddisk Backup to   C:\SINUBACK\PCU\MMC.GHO, Mode LOCAL/NETWORK
3 Harddisk Restore from C:\SINUBACK\PCU\MMC.GHO, Mode LOCAL/NETWORK
4 Switch to other Version of GHOST

9 Return to Main Menu

Your choice [1,2,3,4,9]?
```

选择 1----配置 GHOST 的参数

选择 2----备份整个硬盘到本地的 D 盘，映像文件文件名为 840D.GHO。

选择 3----从本地的 D 盘上 D:\SINUBACK\PCU\MMC.GHO 恢复整个硬盘。

选择 4----

注意：不能使用 2 将整个硬盘备份到本地硬盘（C,D,E,F 盘）

选择 1，进入配置 GHOST 参数的画面

```
GHOST Connection Mode : LOCAL / NETWORK
Backup to Image File   : C:\SINUBACK\PCU\MMC.GHO
Restore from Image File : D:\SINUBACK\PCU\MMC.GHO
Split Mode             : SPLITTING (Split Size : 640MB )

PLEASE SELECT:

1 Set Connection Mode PARALLEL (LPT:)
2 Set Connection Mode LOCAL / NETWORK
3 Change Backup Image Filename
4 Change Restore Image Filename
5 Change Machine name (for Windows and DOS net)
6 Manage Network Drives
7 Change Split Mode
8 Load additional drivers

9 Back to previous Menu

Your choice [1,2,3,4,5,6,7,8,9] ? 9
```

选项 1----将连接方式设为并口，使用 Interlnk/Intersvr 进行通讯，此种方式通讯速度太慢。

- 选项 2----将连接方式设为本地或网络
- 选项 3----修改备份文件文件名
- 选项 4----修改恢复文件文件名
- 选项 5----修改机器名称
- 选项 6----管理网络驱动器
- 选项 7----是否拆分
- 选项 8----
- 选项 9----返回上级菜单

现在我们要将 PCU50 的硬盘备份到计算机上，所以首先要建立网络驱动器，选择选项 6，屏幕显示如下：

```

CURRENT NETWORK SETTINGS;
Machine Name      : SIEMENS-JE3AMFQ
User Name         : auduser
Transport Protocol : TCPIP, get IP Addresses automatically via DHCP
Logon to domain   : No
Connected Network Drive: - none -

PLEASE SELECT:

1 Connect to Network Drive
2 Show connected Network Drives
3 Disconnect from all Network Drives
4 change Network settings

9 Return to Main Menu

Your choice [1,2,3,9]?

```

- 选项 1----建立网络驱动器；
- 选项 2----显示网络驱动器；
- 选项 3----断开网络驱动器
- 选项 4----修改网络设置

在建立网络驱动器前，要确认：

- 计算机侧已经安装了协议
- 已知计算机名或 IP 地址（例：Host）
- PCU50 和计算机之间已用对等网线连接
- 计算机侧已经共享了某个目录（例：temp）

选择 4，修改网络设置，

```

CURRENT NETWORK SETTINGS;
Machine Name      : SIEMENS-JE3AMFQ
User Name         : auduser
Transport Protocol : TCPIP, get IP Addresses automatically via DHCP
Logon to domain   : No
Connected Network Drive: - none -

PLEASE SELECT:

1 Change Machine Name (for DOS Net only)
2 Change User name
3 Toggle Protocol (NETBEUI or TCPIP)
4 Toggle logon to domain (Yes or No)
6 Change TCPIP settings

9 Return to Main Menu

Your choice [1,2,3,4,6,9]?

```

PCU50 名称

PC 用户名，建议不设密

现在，Windows XP 没有 NETBEUI 协议，所以选择 TCPIP 协议，如果当前不是，可用数字键“3”切换成 TCPIP 协议。

然后，选择“6”进行 TCPIP 设置（注意这是在 DOS 下的设置，和 Windows 下的设置不同）

```

CURRENT TCPIP SETTINGS:

Get IP Address      :  automatically via DHCP
Domain Name Server :  0 0 0 0
DNS Extension      :

PLEASE SELECT:

1 Toggle "Get IP addresses" ( automatically or manually)
2 Change IP Address
3 Change Subnet mask
4 Change Gateway
5 Change Domain Name Server
6 Change DNS Extension

9 Return to Main Menu

Your choice [1,2,3,4,5,6,9]?

```

如果采用对等网的连接，要设成手动设置 IP 地址。
选择“1”。

```

CURRENT TCPIP SETTINGS:

Get IP Address      :  manually
My IP Address       :  0 0 0 0
Subnet mask         :  255 255 255 0
Gateway             :  0 0 0 0
Domain Name Server :  0 0 0 0
DNS Extension       :

PLEASE SELECT:

1 Toggle "Get IP addresses" ( automatically or manually)
2 Change IP Address
3 Change Subnet mask
4 Change Gateway
5 Change Domain Name Server
6 Change DNS Extension

9 Return to Main Menu

Your choice [1,2,3,4,5,6,9]?

```

选择“2”修改 IP 地址

```

CURRENT TCPIP SETTINGS:

Get IP Address      :  manually
My IP Address       :  0 0 0 0
Subnet mask         :  255 255 255 0
Gateway             :  0 0 0 0
Domain Name Server :  0 0 0 0
DNS Extension       :

PLEASE SELECT:

1 Toggle "Get IP addresses" ( automatically or manually)
2 Change IP Address
3 Change Subnet mask
4 Change Gateway
5 Change Domain Name Server
6 Change DNS Extension

9 Return to Main Menu

Your choice [1,2,3,4,5,6,9]?2
Old IP Address: 0 0 0 0
New IP Address: 0 0 0 0

```

输入 IP 地址，回车

```

CURRENT TCPIP SETTINGS:

Get IP Address      : manually
My IP Address       : 1 1 1 1
Subnet mask         : 255 255 255 0
Gateway             : 0 0 0 0
Domain Name Server  : 0 0 0 0
DNS Extension       :

PLEASE SELECT:

1 Toggle "Get IP addresses" ( automatically or manually)
2 Change IP Address
3 Change Subnet mask
4 Change Gateway
5 Change Domain Name Server
6 Change DNS Extension

9 Return to Main Menu

Your choice [1,2,3,4,5,6,9]?

```

子网掩码可不用改，若需要选择“3”修改子网掩码。
选择“9”返回。

```

CURRENT NETWORK SETTINGS;

Machine Name       : SIEMENS-JE3AMFQ
User Name          : auduser
Transport Protocol  : TCPIP, get IP Addresses manually
Logon to domain    : No
Connected Network Drive: - none -

PLEASE SELECT:

1 Change Machine Name (for DOS Net only)
2 Change User name
3 Toggle Protocol (NETBEUI or TCPIP)
4 Toggle logon to domain (Yes or No)
6 Change TCPIP settings

9 Return to Main Menu

Your choice [1,2,3,4,6,9]?

```

选择“9”返回

```

CURRENT NETWORK SETTINGS;

Machine Name       : SIEMENS-JE3AMFQ
User Name          : auduser
Transport Protocol  : TCPIP, get IP Addresses manually
Logon to domain    : No
Connected Network Drive: - none -

PLEASE SELECT:

1 Connect to Network Drive
2 Show connected Network Drives
3 Disconnect from all Network Drives
4 change Network settings

9 Return to Main Menu

Your choice [1,2,3,9]?

```

此时，选择选项 1（建立网络驱动器）

Intel(R) PRO PCI Driver v4.31 112901
Copyright 1995-2001, Intel Corporation. All Rights Reserved.

Defaulting to NIC found in slot 0x0009
PCI ID: 8086/1229/8086/3000/0008

Microsoft DOS TCP/IP Protocol Driver 1.0a
Copyright © Microsoft corporation, 1991. All rights reserved.
Copyright © Hewlett-Packard Corporation, 1985-1991. All rights reserved.
Copyright © 3Com corporation, 1985-1991. All rights reserved.
Microsoft DOS TCP/IP NEMM Driver 1.0
The command completed successfully.
MS-DOS LAN Manager v2.1 Netbind
Microsoft DOS TCP/IP 1.0a
Microsoft Domain Name Resolver Version 2.1
Copyright © Microsoft corporation, 1992-1993. All rights reserved.
Copyright © Hewlett-Packard Corporation, 1985-1991. All rights reserved.
Copyright © 3Com corporation, 1985-1991. All rights reserved.
(loaded in regular memory)
The command completed successfully.

Please type in the network password of the user "auduser"
When a password is requested

Type your password:

输入 SUNRISE, 回车

Defaulting to NIC found in slot 0x0009
PCI ID: 8086/1229/8086/3000/0008

Microsoft DOS TCP/IP Protocol Driver 1.0a
Copyright © Microsoft corporation, 1991. All rights reserved.
Copyright © Hewlett-Packard Corporation, 1985-1991. All rights reserved.
Copyright © 3Com corporation, 1985-1991. All rights reserved.
Microsoft DOS TCP/IP NEMM Driver 1.0
The command completed successfully.
MS-DOS LAN Manager v2.1 Netbind
Microsoft DOS TCP/IP 1.0a
Microsoft Domain Name Resolver Version 2.1
Copyright © Microsoft corporation, 1992-1993. All rights reserved.
Copyright © Hewlett-Packard Corporation, 1985-1991. All rights reserved.
Copyright © 3Com corporation, 1985-1991. All rights reserved.
(loaded in regular memory)
The command completed successfully.

Please type in the network password of the user "auduser"
When a password is requested

Type your password: *****
The command completed successfully.

Letter for Network Drive [G]: G

默认网络驱动器为 G 盘, 回车

Please type in the network password of the user “auduser”
When a password is requested

Type your password: *****
The command completed successfully.

Letter for Network Drive [G]: G
Directory to be mounted (e.g. [\\r4711\dir66](#)): [\\Tony\temp](#)

输入计算机共享出的目录，格式为: [\\计算机名](#)共享路径名
如果提示输入密码，请按二次回车（前提 PC 用户未设密码）

CURRENT NETWORK SETTINGS;
Machine Name : SIEMENS-JE3AMFQ
User Name : auduser
Transport Protocol : TCPIP, get IP Addresses manually
Logon to domain : No
Connected Network Drive: G: (\\Tony\temp)

PLEASE SELECT:

- 1 Connect to Network Drive
- 2 Show connected Network Drives
- 3 Disconnect from all Network Drives
- 4 change Network settings

9 Return to Main Menu

Your choice [1,2,3,9]?

选择“9”返回，按“Y”确认存网络参数。

GHOST Connection Mode : LOCAL / NETWORK
Backup to Image File : C:\SINUBACK\PCU\MMC.GHO
Restore from Image File : D:\SINUBACK\PCU\MMC.GHO
Split Mode : SPLITTING (Split Size : 640MB)

PLEASE SELECT:

- 1 Set Connection Mode PARALLEL (LPT:)
- 2 Set Connection Mode LOCAL / NETWORK
- 3 Change Backup Image Filename
- 4 Change Restore Image Filename
- 5 Change Machine name (for Windows and DOS net)
- 6 Manage Network Drives
- 7 Change Split Mode
- 8 Load additional drivers

9 Back to previous Menu

Your choice [1,2,3,4,5,6,7,8,9] ? 9

选择选项 7（是否拆分）如果备份文件过大，就无法刻成 CD 保存，此时可以选择拆分，即将备份时，自动分成指定文件大小的若干文件。

A GHOST backup image can be split into smaller portions
to fit on removable media (max. split size 2048 MB).

PLEASE SELECT:

- 1 NO splitting
- 2 Splitting

Your choice [1,2]?

选项 1----不拆分

选项 2----拆分

选择选项 2，屏幕显示

A GHOST backup image can be split into smaller portions to fit on removable media (max. split size 2048 MB).

PLEASE SELECT:

1 NO splitting
2 Splitting

Your choice [1,2]?2

Old split Size (MB): 640
New Split Size (MB): 640

默认拆分的大小为 640MB，如果需要可修改。

返回到

GHOST Connection Mode : LOCAL / NETWORK
Backup to Image File : C:\SINUBACK\PCU\MMC.GHO
Restore from Image File : D:\SINUBACK\PCU\MMC.GHO
Split Mode : SPLITTING (Split Size : 640MB)

PLEASE SELECT:

1 Set Connection Mode PARALLEL (LPT:)
2 Set Connection Mode LOCAL / NETWORK
3 Change Backup Image Filename
4 Change Restore Image Filename
5 Change Machine name (for Windows and DOS net)
6 Manage Network Drives
7 Change Split Mode
8 Load additional drivers

9 Back to previous Menu

Your choice [1,2,3,4,5,6,7,8,9] ?

选择“3”修改备份文件名

Split Mode : SPLITTING (Split Size : 640MB)

PLEASE SELECT:

1 Set Connection Mode PARALLEL (LPT:)
2 Set Connection Mode LOCAL / NETWORK
3 Change Backup Image Filename
4 Change Restore Image Filename
5 Change Machine name (for Windows and DOS net)
6 Manage Network Drives
7 Change Split Mode
8 Load additional drivers

9 Back to previous Menu

Your choice [1,2,3,4,5,6,7,8,9] ? 3

Attention! GHOST connetion mode LOCAL/NETWORK is configured.

Don't use drives C:,D:,E:,or F: for the backup/restore image file,
Because they're the backup/restore drives themselves.

Old backup image filename: C:\SINUBACK\PCU\MMC.GHO
New backup image filename: C:\SINUBACK\PCU\MMC.GHO

在 New backup image filename 项输入, G:\MMC.GHO
即将 PCU50 整个硬盘备份到计算机上，文件名为 MMC.GHO
选择“9”返回，并按“Y”确认存储 GHOST 参数。

GHOST Connection Mode : LOCAL/NETWORK
 GHOST Version : 7.5 (build=335)

PLEASE SELECT:

- 1 Configure GHOST Parameters
- 2 Harddisk Backup to C:\SINUBACK\PCU\MMC.GHO, Mode LOCAL/NETWORK
- 3 Harddisk Restore from C:\SINUBACK\PCU\MMC.GHO, Mode LOCAL/NETWORK
- 4 Switch to other Version of GHOST

9 Return to Main Menu

Your choice [1,2,3,4,9]?

选择选项 2

There are local images on D:
 The backup can be performed with or without these images.

PLEASE SELECT:

- 1 Backup WITHOUT local Images
- 2 Backup WITH local Images

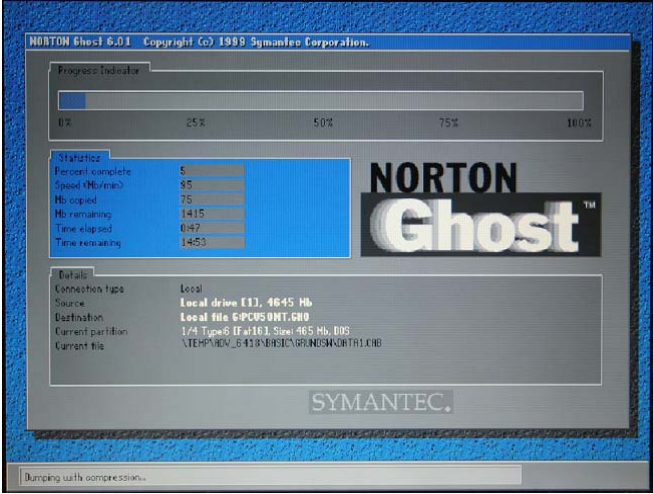
Your choice [1,2] ?

选项 1----备份时不将 PCU50 硬盘上的映像文件加到新的备份文件中
 选项 2----备份时将 PCU50 硬盘上的映像文件也加到新的备份文件中

Image file for backup is G:PCU50NT.GHO
 Please make sure the directory path exists on the target system!

Continue backup [Y, N] ?

按 Y 确认后，开始备份并传输到计算机。



等待直到进度条到 100%，备份就完成了。
注意：之前确认系统能够正常进入 windows，没有非法关机过程，如果存在，首先进入 windows，进行系统自检，否则不允许进行全盘 GHOST