

## 一、 准备工作

(\*) 在条件允许下，一定要备份系统

因为换完主板后，需要重新设置 UUID 和 SN 等信息，而这些信息跟某些软件绑定在一起，如果不更改的话，可能导致软件不可用等未知问题，所以在换主板前先获取这些信息

1、 如果开机能进入到 Shell 下，可以进入 Shell 命令提示下，输入“info all”

```
301
302 Shell> info all
303
304 SYSTEM INFORMATION
305
306 Date/Time: Mar 23, 2014 13:46:20 (20:14:03:23:13:46:20)
307 Timezone: GMT+00:00
308 DST: Not Affected
309
310 Manufacturer: hp
311 Product Name: Integrity rx2800 i4
312 Product Number: AT101A
313 Original Product Number: AT101A
314 Serial Number: SGH325XW6C
315 UUID: F83D0198-FC87-11E2-A6F2-6BFD858A3FD3
316 Physical Serial Number: SGH325XW6C
317 Physical UUID: F83D0198-FC87-11E2-A6F2-6BFD858A3FD3
318
319 CPU INFORMATION
320
321 Active Socket
```

2、 如果不能进入 Shell 下，可以在机器上找到 SN 的标签，在主板上找到 UUID，

如果都不行，打电话咨询 RC

查看是否做了 RAID

在 Shell 下输入以下命令

```
516 Shell> devtree
517 Device Tree
518 Ctrl[03] MemoryMapped(0xB,0xFF160000,0xFFFFFFFF)
519 Ctrl[04] MemoryMapped(0xB,0xFF000000,0xFF15FFFF)
520 Ctrl[69] PcieRoot(0x30304352)
521 Ctrl[97] PcieRoot(0x30304352)/Pci(0x0,0x0)
522 Ctrl[98] PcieRoot(0x30304352)/Pci(0x1,0x0)
523 Ctrl[99] Smart Array P410i Controller
524 Ctrl[EB] PcieRoot(0x30304352)/Pci(0x1,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)
525 Ctrl[ED] FAT File System
526 Ctrl[EE] PcieRoot(0x30304352)/Pci(0x1,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)/HD(2,GPT,C0512AD2-EF4F-11E2-8000-D6217B60E588)
527 Ctrl[EF] FAT File System
528 Ctrl[EB] PcieRoot(0x30304352)/Pci(0x1,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)
529 Ctrl[ED] FAT File System
530 Ctrl[EE] PcieRoot(0x30304352)/Pci(0x1,0x0)/Pci(0x0,0x0)/Scsi(0x0,0x0)/HD(2,GPT,C0512AD2-EF4F-11E2-8000-D6217B60E588)
531 Ctrl[EF] FAT File System
532 Ctrl[EC] PcieRoot(0x30304352)/Pci(0x1,0x0)/Pci(0x0,0x0)/Ctrl(0x1)
533 Ctrl[9C] PcieRoot(0x30304352)/Pci(0x3,0x0)
534 Ctrl[9D] PcieRoot(0x30304352)/Pci(0x5,0x0)
535 Ctrl[9E] PcieRoot(0x30304352)/Pci(0x6,0x0)
```

631

```
632 Shell> drvcfg
```

```
633 Configurable Components
634 Drv[BE] Ctrl[BC] Lang[eng]
635 Drv[C1] Ctrl[BF] Lang[eng]
636 Drv[C5] Ctrl[C3] Lang[eng]
637 Drv[C8] Ctrl[C6] Lang[eng]
638 Drv[9B] Ctrl[99] Lang[eng]
```

输入命令：Shell> drvcfg -s 9B 99，会出现 RAID 配置界面

```
Option Rom Configuration for Arrays, version 3.50
Copyright 2009 Hewlett-Packard Development Company, L.P.
Controller: HP Smart Array P410i

-----Main Menu-----
| Create Logical Drive |
| View Logical Drive   |
| Delete Logical Drive |
| Manage License Keys  |
-----

<Enter> to create a new logical drive
<UP/DOWN ARROW> to select main menu option; <ESC> to exit
```

选择“View Logical Drive”，回车，看到以下界面，说明做了 RAID

```
Option Rom Configuration for Arrays, version 3.50
Copyright 2009 Hewlett-Packard Development Company, L.P.
Controller: HP Smart Array P410i
```

```
Logical Drive # 1, RAID 1+0, 279.4 GB, Status OK
```

```
-----Assigned Physical Drives-----
| [ ] Port 1I, Box 1, Bay 1, 300.0GB SAS Drive OK
| [ ] Port 1I, Box 1, Bay 2, 300.0GB SAS Drive OK
-----
```

```
-----Assigned Spare Drives-----
| No Drives Present
-----
```

```
View Logical Drive
<UP/DOWN ARROW> to scroll; <ESC> to return; <Tab> to navigate
```

## 二、 更换主板

注意：

- 1、 更换主板一定要彻底断开电源，并且要戴静电手环，防止因为静电导致主板 DOA
- 2、 主板中有一块纽扣电池，出厂的情况下，电池和主板之间有一个塑料条，需要拔掉
- 3、 主板会附带一个 MP 卡的初始用户名和密码，第一次登录需要用到这个信息，登录成功后，在用户的同意下将它改成 Admin/Admin
- 4、 在主板更换完成后，在加电前，将主机的硬盘，拔出，设置好 RAID 后，再将其放回原位

## 三、 相关操作

- 1、 确定当前的模式是否是 RAID 模式，使用 saupdate.efi 工具

首先将 saupdate.efi 工具放到 U 盘中，然后在 Shell 中找到 U 盘的路径

```
329 Launching UEFI Shell.
330 UEFI Shell version 2.30 [2.0]
331 Current running mode 1.1.2
332 Device mapping table
333 fs0 :Removable HardDisk - Alias hd41a0b blk0
334     PcieRoot(0x30304352)/Pci(0x1A,0x7)/USB(0x0,0x0)/HD(1,MBR,0x26F326F2)
335 blk0 :Removable HardDisk - Alias hd41a0b fs0
336     PcieRoot(0x30304352)/Pci(0x1A,0x7)/USB(0x0,0x0)/HD(1,MBR,0x26F326F2)
337 blk1 :BlockDevice - Alias (null)
338     PcieRoot(0x30304352)/Pci(0x1F,0x2)/Sata(0x0,0x0)
339 blk2 :Removable BlockDevice - Alias (null)
340     PcieRoot(0x30304352)/Pci(0x1A,0x7)/USB(0x0,0x0)
~**
```

进入到 U 盘中，运行 saupdate.efi 工具

```
344
345 Shell> fs0:
346
347 fs0:\> ls
348 Directory of: fs0:\
349
350 07/29/10 03:30p          442,368 saupdate.efi
351      1 File(s)    442,368 bytes
352      0 Dir(s)
353
354
355 fs0:\> saupdate.efi get_mode all
356
357 The controller at 0:1:0:0 is in RAID mode
~**
```

发现当前状态已是 RAID 模式，所以我们无需修改，如果不是，使用以下命令将模式设置为 RAID 模式

```
saupdate.efi set_mode 0:1:0:0 raid
```

2、更新 UUID，SN 等相关信息

进入 MP，使用 sysset 命令修改，然后重启

```
0 1,0 2,0 3,0 4,0 5,0 6,0 7,0
10 [ilo9c8e9936e778] CM:hpiLO-> sysset
11
12
13 SYSSET
14 Current System Information Parameters:
15 Manufacturer      : HP
16 Product Name (prodname) : Uninitialized
17 Secondary Product Name : Integrity rx2800 i4
18 Product Number (prodnum) : Uninitialized
19 Secondary Product Number : AT101A
20 Serial number (serial) : Uninitialized
21 Secondary Serial Number : SGH325XW6C
22 UUID (uuid)       : FFFFFFFF-FFFF-FFFF-FFFF-FFFFFFFFFFFF
23 Secondary UUID    : F83D0198-FC87-11E2-A6F2-6BFD858A3FD3
24 Product ID       : 0x811
25
26
27
28 Primary and secondary system parameters values do not match.
29 Copy secondary parameters to primary? (Y/[N]): y
```

选择“y”后，开始同步信息

```
27
28 Primary and secondary system parameters values do not match.
29 Copy secondary parameters to primary? (Y/[N]): y
30
31 -> Secondary system parameters values have been copied to primary
32 system parameters.
33
34 ->System Information parameters have been updated.
35
36 iLO MP needs to be reset in order for these changes to take effect
37
```

重启，输入命令“`xd -r -nc`”

最后，将硬盘放入原位，开始启动系统。