

WDR-UDMA (西数硬盘维修软件)

使用版本 2.00

```
WDR-UDMA User only for xxxxxxxxxxxxxxxx Ver: 2.00
DUT # ... ? FAMILYID LBA :..... 00000000h RSTAT 50h
BASEPORT ... 01F0h REPORTLVL 2 Zone: 0 RERR 00h
Drive # ... 0 INTs OFF Cylinder 0 RSECC 3Eh
CYLS LBAMODE OFF Head :..... 0 RSECN 01h
HEADS ... UDMAMODE ? Sector :..... 1 RCVLL 00h
SPT CMDLOG Block count .. 1 RCVLH 00h
CAPACITY .. LOG file MULT count .. 0 RSDH A0h
LBAS ... Wofst: 0 RASTAT 50h
ERRORS 0 RCMD 00h
Wsize: 0x200
Copyright 2010 China HDD Union Author:Diode

=====
WDR-UDMA
(Western Digital Hard Disk Repair Software)
Version 2.00

=====
Copyright 2010 China HDD Union All Rights Reserved.
http://www.chinahdd.cn
China website: http://bbs.hddfix.org
Email: str3000@yahoo.com.cn
MSN: str3000@live.cn
QQ: 36726325
Tel: +86-027-87052378 +86-13871397622

Author: XJH(Diode)
Email: diode0922@live.cn
MSN: diode0922@live.cn
QQ: 450194478

=====
Diode Update Macros - Revision: 2.00
Feb 12 2011 9:22:00
=====
```

WDR-UDAM 是一款基于西数工厂软件平台之上开发的一款针对西数硬盘故障的使用软件。软件是由中国硬盘联盟和作者二极管开发而成。软件支持功能函数如下:

功 型	固件读写	固件检测	固件区低格	查看GP	清GP	低格清零	固件区清零	用户区读写测试	加G、P表	修复P表
L系列	√	√	√	√	√	√	√	√	√	√
西数笔记本硬盘	√	√	√	√	√	√	√	√	√	√
ROYL系列	√	√	√	√	√	√	√	√	√	√
功 型	根据P表编译	描坏道加	砍头	自动校准	设置自校流程	ROM读写	配ROM	参数修改	清密码	复SMART
L系列	√	√	√	√	√	√	√	√	√	√
西数笔记本硬盘	√	√	√	√	√	√	√	√	√	√
ROYL系列	√	√	√	√	√	√	√	√	√	√

下载我们提供的 ghost 镜像, 运行 ghost 文件进行整盘还原。母盘分为 3 个区, WDR-UDMA 自动安装在 C:\WDR 目录, 这个目录就是软件的工作目录。

运行 WDR.EXE 文件后, 会启动软件。

打开软件后, 我们输入 XJH, 然后按下 Alt+a。就会弹出所有的函数! 下面我们分别来说说这些函数。函数中有名种有 L 的是支持 L 版系列的, 有 ROYL 的是支持 ROYL 系列的, 没有这些参数的支持所有 WD 系列硬盘。

操作向导:

- 1.待修硬盘接在主板的 IDE1 或者 SATA1 口上。
- 2.打开软件, 先执行 XJH_INIT_1_DISK 初始化硬盘, 软件界面上将显示硬盘的物理参数。
- 3.使用 XJH_XJH_CHGCAP NUM 改变硬盘容量命令需要输入容量值 NUM 值为十进制。

- 4.使用 XJH_FORMAT 内部格式化命令后出现提示后需要再次输入对应的功能值。
- 5.使用 XJH_CHKRESF 0xNUM 检查单个模块 NUM 的值为 16 进制数。
- 6.使用 XJH_L_SETPSTTESTPTR NUM 设置自校起始步, NUM 值为十进制。
- 7.使用 XJH_L_WRITEMODEL 写硬盘型号出现提示后需要输入的 MODEL 号均要大写。
- 8.使用 XJH_L_WRITESN 写硬盘 SN 号出现提示后需要输入的 SN 号均要大写。
- 9.使用 XJH_WRITESINGLEMODULE 写单个固件模块, 出现提示后先输入**.BIN 回车,再次提示时输入**为 16 进制数。
- 10.使用 XJH_L_WRITEHEAD_0_ALLRESCYLS 写 0 磁头全部磁道镜像时, 先要输入 Block 的值, 此值就是硬盘的 SPT 值。

建议保存磁道镜像时记下 B 值。

- 11.使用 XJH_L_WRITEHEAD_1_ALLRESCYLS 写 1 磁头全部磁道镜像时, 同 XJH_L_WRITEHEAD_0_ALLRESCYLS 写 0 磁头全部磁道镜像。
- 12.使用 XJH_STARTSELFTEST 开始自校后, 可以联机也可以脱机独立供电执行。

函数说明:

XJH_CHGCAP	//改变硬盘容量
XJH_CHKRESF	//检查单个模块
XJH_CHKRESFALL	//检查全部模块
XJH_CLRSMART	//清除复位 SMART
XJH_DEPOPHD0	//砍 0 磁头
XJH_DEPOPHD1	//砍 1 磁头
XJH_DEPOPHD2	//砍 2 磁头
XJH_DEPOPHD3	//砍 3 磁头
XJH_DEPOPHD4	//砍 4 磁头
XJH_DEPOPHD5	//砍 5 磁头
XJH_ENDSELFTEST	//结束自校
XJH_FORMAT	//内部格式化 (输入命令后会弹出菜单, 大家根据选择去做格式化)
XJH_INIT_1_DISK	//初始化硬盘 (这是硬盘检测命令, 类似 MHDD F2 功能, 可以看到硬盘的家族号, ID 信息)
XJH_L_CLRGDLIST	//清除 GD 表
XJH_L CLRGLIST	//清除 G 表

XJH_L_CLRPDLIST	//清除 PD 表
XJH_L_CLRPLIST	//清除 P 表
XJH_L_DISPLATPSTSEQUENCE	//显示自校流程（你可以查看硬盘的自校准流程，可以看到具体的步骤）
XJH_L_REWRITEFIRMWARE	//重复写固件模块
XJH_L_REWRITEROMFIRMWARE	//重复写 ROM 中固件模块
XJH_L_SABACKUP	//保存硬盘全部文件
XJH_L_SAVEFIRMWARE	//保存固件模块
XJH_L_SAVERESCYLS	//保存全部磁道镜像
XJH_L_SAVEROM	//保存 ROM 文件
XJH_L_SAVEROMFIRMWARE	//保存 ROM 中固件模块
XJH_L_SETPSTTESTPTR	//设置自校起始步（你可以根据自己的需要设置自校准的步骤）
XJH_L_SHOWGDLIST	//查看 GD 表
XJH_L_SHOWGLIST	//查看 G 表
XJH_L_SHOWPDLIST	//查看 PD 表
XJH_L_SHOWPLIST	//查看 P 表
XJH_L_WRITEFIRMWARE	//写固件模块
XJH_L_WRITEHEAD_0_ALLRESCYLS	//写 0 磁头全部磁道镜像
XJH_L_WRITEHEAD_1_ALLRESCYLS	//写 1 磁头全部磁道镜像
XJH_L_WRITEMODEL	//写硬盘型号
XJH_L_WRITEROMFIRMWARE	//写 ROM 中固件模块
XJH_L_WRITESN	//写硬盘 SN 号
XJH_LOADLDR	//加载 LDR
XJH_MAKELDR	//制作 LDR
XJH_STARTSELFTEST	//开始自校
XJH_WRITEROM	//写 ROM 文件
XJH_WRITESINGLEMODULE	//写单个固件模块

XJH_ROYL_ZoneTbl	//显示 ROYL 段位表
XJH_ROYL_WriteModel	//写 ROYL 型号
XJH_ROYL_WriteSN	//写 ROYL SN 号
XJH_ROYL_ClrFile prmFileID	//清除 ROYL 文件
XJH_ROYL_ClrIBILog	//清除 ROYLLOG 文件
XJH_ROYL_ClrIBIPESLog	//清除 ROYLIBILOG 文件
XJH_ROYL_Saverom	//保存 ROM
XJH_ROYL_SaveROMFirmware	//保存 ROM 固件
XJH_ROYL_WriteROMFirmware	//写 ROM 固件
XJH_ROYL_ReWriteROMFirmware	//重复写 ROM 固件
XJH_ROYL_SABackup	//保存 ROYL SA
XJH_ROYL_SaveFirmware	//保存 ROYL 固件
XJH_ROYL_WriteFirmware	//写 ROYL 固件
XJH_ROYL_ReWriteFirmware	//重复写 ROYL 固件
XJH_ROYL_DisplayPSTSequence	//查看自校流程
XJH_ROYL_setPSTtestPtr ulPtr	//改变自校起始地址
XJH_MakeLDR	//制作 LDR
XJH_loadLDR	//加载 LDR
XJH_ROYL_MakeBackupFlashBin	//制作 ROM 备份
XJH_ROYL_MakeBackup0ABin	//制作 ROM 0A 备份
XJH_ROYL_MakeBackup47Bin	//制作 ROM 47 备份
XJH_ROYL_MakeBackup0DBin	//制作 ROM 0D 备份
XJH_ROYL_MakeBackup30Bin	//制作 ROM30 备份
XJH_ROYL_MakeBackup4FBin	//制作 ROM 4F 备份
XJH_ROYL_MakeBackup0BBin	//制作 ROM0B 备份
XJH_ROYL_MakeAllBackup	//制作 ROM 所有备份

XJH_ShowSmart	//查看 SMART
XJH_EnableSmart	//开启 SMART
XJH_DisableSmart	//禁止 SMART
XJH_DppTbl	//显示硬盘物理参数
XJH_L_MakeRomFile47	//制作 L 板 47
XJH_ROYL_ClrGDlist	//清除 ROYLGD 表
XJH_ROYL_ClrPlist	//清除 ROYLPD 表
XJH_ROYL_ClrPDlist	//清除 ROYLPD 表
XJH_StartSelfTest	//开始自校
XJH_ROYL_StartSelfTest	// ROYL 开始自校
XJH_ROYL_ClrSelfTestLog	//清除 ROYL 自校日志

运行 XJH_ShowSmart:

```

CYLS 133081  LBA/MB 511  Sector 1  RCYLB
HEADS ..... 16  UDMA/MODE 5  Block count .. 16  RCYLBH
SPT ..... 63  CMDLOG  MULTI count .. 8  RSDH
CAPACITY ... 80.0G  LOG file  RASTAT
LBAS ... 0950F8B0h  ROYLzonetable.txtERRORS 1  RCMD

===== Copyright 2010 China HDD Union Author:

3  Spin Up Time 100 21 253 0
4  Start/Stop Count 100 0 100 2
5  Re-allocated Sector Count 200 140 200 0
7  Seek Error Rate 100 51 253 0
   Head: 0 1
   Value: 100 100
9  Power-On Hours Count 100 0 100 1
10 Spin Retry Count 100 51 253 0
11 Drive Calibration Retry Count 100 51 253 0
12 Drive Power Cycle Count 100 0 100 2
184 End to End Error Det/Corr Count 100 97 100 0
187 Reported Uncorrectable Errors 89 0 89 11
188 Command Time Out 100 0 100 0
190 Airflow Temperature 73 0 72 27
192 Emergency Retract Cycle Count 200 0 200 1
193 Load/Unload Cycle Count 200 0 200 2
194 HDA Temperature 116 0 115 27
195 ECC on the Fly Count 100 0 253 0
196 Re-allocated Sector Event 200 0 200 0
197 Current Pending Sector Count 200 0 200 0
198 Offline Uncorrectable Sector Count 100 0 253 0
199 UltraDMA CRC Error Rate 200 0 200 0
200 Multi Zone Error Rate 100 51 253 0
   Head: 0 1
   Value: 0 0

All current and worst-case attributes are acceptable.

show smart is Complete!!!

```

SMART 的参数显示

运行 XJH_RDIRSECT:

```

Copyright 2010 China F
70. File ID = 0xDD ( CYL= -12, S= 306, B= 89, V= 620C
71. File ID = 0xD6 ( CYL= -12, S= 395, B= 93, V= 620C
72. File ID = 0xD7 ( CYL= -13, S= 1, B= 91, V= 620C
73. File ID = 0xD2 ( CYL= -13, S= 92, B= 86, V= 620C
74. File ID = 0xBB ( CYL= -07, S= 430, B= 76, V= 620C
75. File ID = 0xD9 ( CYL= -13, S= 178, B= 77, V= 620C
76. File ID = 0xD4 ( CYL= -13, S= 255, B= 72, V= 620C
77. File ID = 0xDC ( CYL= -13, S= 327, B= 72, V= 620C
78. File ID = 0xD0 ( CYL= -13, S= 399, B= 71, V= 620C
79. File ID = 0xD3 ( CYL= -14, S= 1, B= 71, V= 620C
80. File ID = 0xBA ( CYL= -14, S= 72, B= 82, V= 620C
81. File ID = 0xB9 ( CYL= -14, S= 154, B= 69, V= 620C
82. File ID = 0xBC ( CYL= -14, S= 223, B= 70, V= 620C
83. File ID = 0xFD ( CYL= -14, S= 293, B= 64, V= 620C
84. File ID = 0xFB ( CYL= -08, S= 463, B= 32, V= 620C
85. File ID = 0xE6 ( CYL= -13, S= 470, B= 32, V= 620C
86. File ID = 0xE7 ( CYL= -14, S= 357, B= 32, V= 620C
87. File ID = 0xBE ( CYL= -11, S= 490, B= 21, V= 620C
88. File ID = 0xB8 ( CYL= -08, S= 495, B= 8, V= 620C
89. File ID = 0xBF ( CYL= -08, S= 503, B= 8, V= 620C
90. File ID = 0xFC ( CYL= -07, S= 506, B= 4, V= 620C
91. File ID = 0xEE ( CYL= -09, S= 492, B= 4, V= 620C
92. File ID = 0xE1 ( CYL= -33, S= 1, B= 510, V= 620C
93. File ID = 0xE2 ( CYL= -34, S= 1, B= 510, V= 620C
94. File ID = 0xE3 ( CYL= -35, S= 1, B= 510, V= 620C
95. File ID = 0xE4 ( CYL= -36, S= 1, B= 510, V= 620C
96. File ID = 0xE5 ( CYL= -37, S= 1, B= 510, V= 620C
97. File ID = 0xE9 ( CYL= -38, S= 1, B= 429, V= 620C

```

显示 L 板系列硬盘固件目录

运行 XJH_RDIRSECT:

LBAS ... 0950F8B0h		Serial Number: EXTERRORS		2	
FW: 01.BB 58.9NH		WD-WCAS23250475		Copyright 2010 China HDD Union	
306	8013h	5	1803h	15A4h	2
307	804Ch	5	1803h	15B6h	2
308	804Dh	13	1803h	15C8h	2
309	804Eh	100	1803h	15DAh	2
310	804Fh	3	1803h	15ECh	2
311	804Ah	5	1803h	15FEh	2
312	804Bh	13	1803h	1610h	2
313	8050h	5	1803h	1622h	2
314	8051h	13	1803h	1634h	2
315	8052h	16	1803h	1646h	2
316	8053h	5	1803h	1658h	2
317	8054h	13	1803h	166Ah	2
318	8055h	5	1803h	167Ch	2
319	8056h	13	1803h	168Eh	2
320	8057h	5	1803h	16A0h	2
321	8058h	13	1803h	16B2h	2
322	8059h	5	1803h	16C4h	2
323	805Ah	13	1803h	16D6h	2
324	805Bh	16	1803h	16E8h	2
325	805Ch	2	1803h	16FAh	2
326	8066h	2	1803h	170Ch	2
327	8067h	5	1803h	171Eh	2
328	8068h	13	1803h	1730h	2
329	8069h	10	1803h	1742h	2
330	120Fh	17	1803h	1754h	2
331	1213h	16	1803h	1766h	2
332	1470h	17	1803h	1778h	2
374	secs				
				9A24h	9A2
				9A29h	9A2
				9A2Eh	9A2
				9A3Bh	9A3
				9A9Fh	9A9
				9AA2h	9AA
				9AA7h	9AA
				9AB4h	9AB
				9AB9h	9AB
				9AC6h	9AC
				9AD6h	9AD
				9ADBh	9AD
				9AE8h	9AE
				9AEDh	9AE
				9AFAh	9AF
				9AFFh	9AF
				9B0Ch	9B0
				9B11h	9B1
				9B1Eh	9B1
				9B2Eh	9B2
				9B30h	9B3
				9B32h	9B3
				9B37h	9B3
				9B44h	9B4
				97BDh	97B
				97ADh	97A
				979Ch	979

显示 ROLY 系列硬盘固件目录

运行 XJH_CHKRESFALL:

```
Format Unit Progress Indicator = 0.0%
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x108 Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x02 Version = 00080000
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x17 Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x1B Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x1C Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x14 Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x15 Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x1E Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
Check File ID = 0x2F Version = 0058009N
Hd 0: (Good)
Hd 1: (Good)
```

检查固件，如果硬盘有坏道先检查固件，固件没有问题备份，直接运行自校准

运行 XJH_SHOWPLIST:

```
CAPACITY .. 80.0G    LOG file
LBAS ... 0950F8B0h   ROYLzonetable.txtERRORS      1

===== Copyright 2010 China HDD Union Au

Cylinder 133833(0x20ac9), Head 00 has 4 Defect(s)
#00451 cyl=134620(0x20ddc) hd=00 strt=00597(0x0255) end=00599(0x0257)
Cylinder 134620(0x20ddc), Head 00 has 3 Defect(s)
#00452 cyl=138553(0x21d39) hd=00 strt=65535(0xffff) end=65535(0xffff)
Cylinder 138553(0x21d39), Head 00 is a bad track
#00453 cyl=138554(0x21d3a) hd=00 strt=65535(0xffff) end=65535(0xffff)
Cylinder 138554(0x21d3a), Head 00 is a bad track
#00454 cyl=138564(0x21d44) hd=00 strt=65535(0xffff) end=65535(0xffff)
Cylinder 138564(0x21d44), Head 00 has 1 Defect(s)
#00455 cyl=139127(0x21f77) hd=00 strt=00060(0x003c) end=00062(0x003e)
Cylinder 139127(0x21f77), Head 00 has 3 Defect(s)
#00456 cyl=139820(0x2222c) hd=00 strt=00108(0x006c) end=00110(0x006e)
Cylinder 139820(0x2222c), Head 00 has 3 Defect(s)
#00457 cyl=140248(0x223d8) hd=00 strt=00675(0x02a3) end=00677(0x02a5)
Cylinder 140248(0x223d8), Head 00 has 3 Defect(s)
0 mins 1.6049 secs
```

显示 P_List 信息

运行 XJH_ROYL_ZONETBL:

```
ROYLzonetable.txt
SECTOR LOGICAL ZONE DATA TABLE
-----
Format Version = 0x1000
No. of Zones = 40
No. of Heads = 2
Host Max Addr. lba ..... = 0x950F8AF
DC0 Max Addr. lba ..... = 0x950F8AF
Destroke Max Addr. lba ... = 0x950F8AF
Process Max Addr. lba..... = 0x12A19EB0
Format Max Addr. lba..... = 0x12A19EB0
First Spare lba..... = 0x0
Last Spare lba..... = 0x980F8AF
Zone   First LBA Last LBA  SPT0   SPT1   SPT2   SPT3   SPT4
-----
Zone 0
----- 0x0000 0x0000 0x0359 0x0359 0x0000 0x0000 0x0000 0x0000
Zone 1
----- 0xffe76ffd 0x1b52fbf 0x0510 0x05c8 0x0000 0x0000 0x0000
Zone 2
----- 0x1b52fc0 0x1cf773f 0x0510 0x05a0 0x0000 0x0000 0x0000
Zone 3
----- 0x1cf7740 0x345f33f 0x04f4 0x05a0 0x0000 0x0000 0x0000
Zone 4
----- 0x345f340 0x383b53f 0x04d8 0x05a0 0x0000 0x0000 0x0000
Zone 5
----- 0x383b540 0x408087f 0x04d8 0x0588 0x0000 0x0000 0x0000
```

显示 ROLY 系列 SPT

运行 XJH_L_ZONETBL:

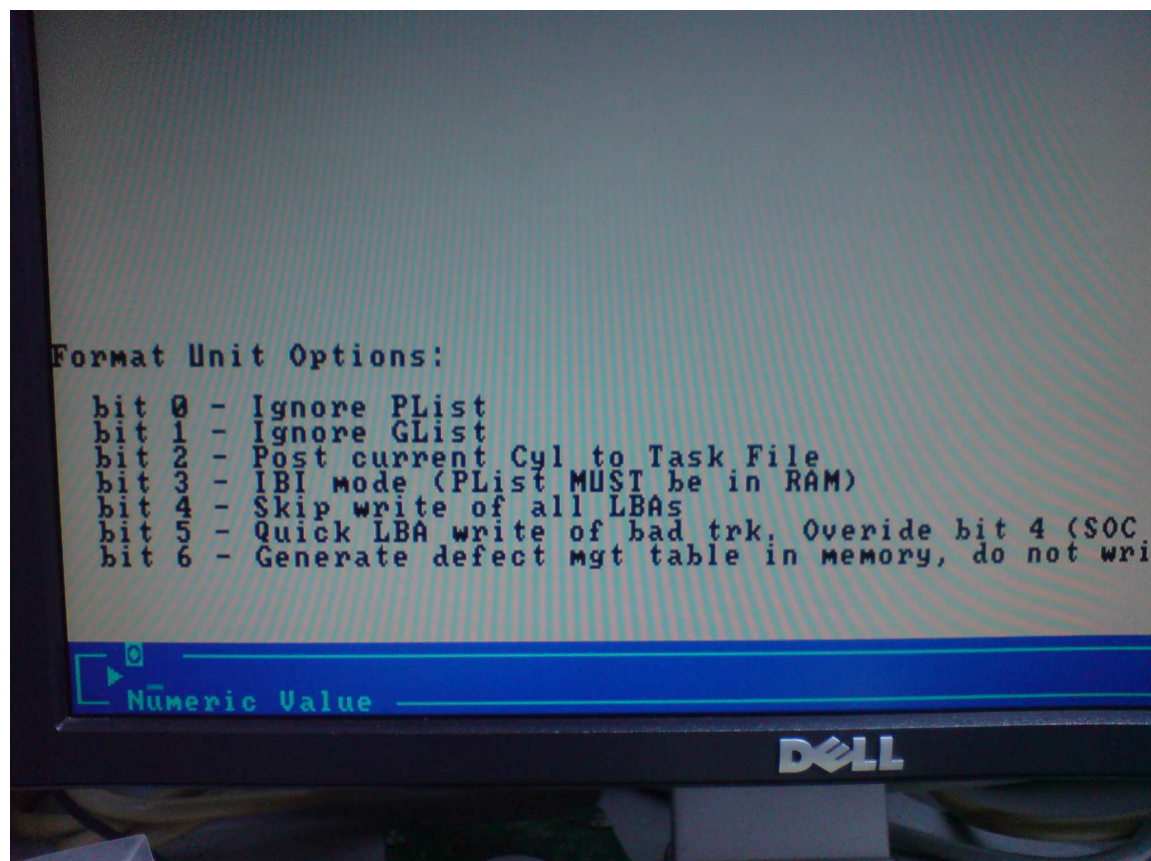
SECTOR ZONE DATA TABLE

Format Version = 2

Zone	First Cyl	Last Cyl	1st LBA	Last LBA	SPT0	SPT1	SPT2
00	0xffffffffc0	0xffffffffff	0xffe00000	0xffffffffff	0x215	0x215	0x215
01	0x00000000	0x000159f	0x00000000	0x0be7c05	0x469	0x469	0x469
02	0x00015a0	0x0002e9f	0x0be7c06	0x199ddd2	0x464	0x464	0x464
03	0x0002ea0	0x000411f	0x199ddd3	0x2397c89	0x453	0x453	0x453
04	0x0004120	0x0004a9f	0x2397c8a	0x28a9b7b	0x445	0x445	0x445
05	0x0004aa0	0x0005b9f	0x28a9b7c	0x319a385	0x435	0x435	0x435
06	0x0005ba0	0x0006f1f	0x319a386	0x3bc011c	0x42a	0x42a	0x42a
07	0x0006f20	0x000839f	0x3bc011d	0x4623c6e	0x40e	0x40e	0x40e
08	0x00083a0	0x000949f	0x4623c6f	0x4e87ce9	0x3f3	0x3f3	0x3f3
09	0x00094a0	0x000a9df	0x4e87cea	0x58bc15b	0x3d8	0x3d8	0x3d8
10	0x000a9e0	0x000be5f	0x58bc15c	0x6208a13	0x3a1	0x3a1	0x3a1
11	0x000be60	0x000ce9f	0x6208a14	0x6930d07	0x386	0x386	0x386
12	0x000cea0	0x000d8df	0x6930d08	0x6d909bd	0x36a	0x36a	0x36a
13	0x000d8e0	0x000e71f	0x6d909be	0x73753b0	0x34f	0x34f	0x34f
14	0x000e720	0x000f8bf	0x73753b1	0x7a83c74	0x334	0x334	0x334
15	0x000f8c0	0x001069f	0x7a83c75	0x7fcad41	0x30b	0x30b	0x30b
16	0x00106a0	0x00119ff	0x7fcad42	0x86c62bc	0x2e2	0x2e2	0x2e2

显示 L 板系列 SPT 表

运行 XJH_FORMAT:



格式化, 可以选择自己的方式

运行 XJH_DDPTBL:

```
Format version of return sector: 0x02
Controller firmware version: 58.9NH
Servo firmware version: 01.BB
Overlay firmware version: 58.9NH
Format firmware version: A1.000
Channel firmware version: 06.12Q85
Product ID: 4E
Drive platter count: 1
Physical head count: 2
Virtual head count: 2
Depop Head Info: H2 Depoped
Drive type: Desktop 3 1/2 inch
Servo zone count: 21
Servo wedges per track: 240
Number of negative cylinders: 128
Spindle RPM: 7230
Physical number of user cylinders: 0
Cylinder wedge skew: 19
Head wedge skew: 4D
Cluster wedge skew: 82
Code Residence:
PCBA Type: Non-Entek
Interface type: 02
Controller chip vendor ID: 00
Controller chip revision No.: 42B1
Microprocessor vendor ID: 00
Microprocessor revision No.: 42B1
```

显示硬盘的物理参数(1)

```

Copyright 2010 China HDD

Spindle RPM: 7230
Physical number of user cylinders: 0
Cylinder wedge skew: 19
Head wedge skew: 4D
Cluster wedge skew: 82
Code Residence:
PCBA Type: Non-Entek
Interface type: 02
Controller chip vendor ID: 00
Controller chip revision No.: 42B1
Microprocessor vendor ID: 00
Microprocessor revision No.: 42B1
Channel chip vendor ID: E6
Channel chip revision No.: 11
Preamp chip vendor ID: 00
Preamp revision No.: 05
Power IC vendor ID: 00
Power IC revision No.: 00
#Interleaves in OTF ECC correction: 01
Bytes per Interleave OTF correction: 16
F/W Burst correction count: 43
Correction Bytes in Read Long: 55
Max USC Transfer block count: 0x0100
Jumper Settings: 0x00
Remaining Relocation sectors: 0x05B9
DCM Component: S B L P M H C R U K U
DCM Vendor: I I A Z K 7 Y 8 1 8 F
Original FTS build date: 07-09-2008
Reconfiguration FTS build date:

```

显示硬盘的物理参数(2)

运行 XJH_L_DISPLAYSTSEQUENCE

```
STI... 03... CHDLOG... MULTI count ...  
CAPACITY... 80.0G LOG file  
LBAS... 0950F8B0h ERRORS  
Copyright 2010 China HDD  
  
3 c4 4 19  
4 b1 6 18  
5 eeee 7 ffff 18 ffff  
6 dc 8 ffff 19 ffff  
7 da 9 a 8  
8 dd 9 b  
9 db a  
10 d5 b  
11 d4 c  
12 d3 d  
13 d2 f  
14 eeee ffff  
15 d6 10  
16 d7 11  
17 dc 12  
18 bb 13  
19 b9 14  
20 ba 15  
21 c4 16  
22 c4 17  
23 c4 18  
24 dc ffff  
25 dc ffff  
26 dc ffff  
27 dc ffff  
28 dc ffff  
29 dc ffff  
30 dc ffff
```

可以看到这是自校准的流程