

## IPMI 이미지 생성 및 Fusing

### 1. 이미지 생성

디렉토리: IPMI/20160819\_SDK/ast2500-default

```
[root@localhost ast2500-default]# ls
Makefile      ast.cfg      kernel      make_ramdisk.sh  release_note  toolchains
Makefile.new  bootloader  lib         make_uboot.sh    rootfs        tools
README        configs     make_image.sh  modules          setenv.sh
app           images      make_kernel.sh  outputs          setenv.sh.new
```

```
#source setenv.sh.new
#
#sh make_uboot.sh
#sh make_kernel.sh
#sh make_ramdisk.sh
#sh make_image.sh
```

[참고] kernel 의 make menuconfig 를 하려면 source 디렉토리에서 하면 안되고  
ast2500-default/outputs/ast2500-default/kernel 디렉토리에서 해야 한다.

### 2. Fusing

디렉토리: IPMI/Tool/lxflash

Binary file을 복사해 온다.( IPMI/20160819\_SDK/ast2500-default/images/ast2500-default/  
all.bin)

```
./socflash.sh all.bin[new image] all.bin.old[backup image]
```

### 3. Update

디렉토리: IPMI/application/ipmi\_handler 에서 파일 수정 후 빌드

Ipmid 와 sms-kcsd/sms-kcsd 를 IPMI/20160819\_SDK/ast2500-default/rootfs/bin 에 복사

```
#sh make_ramdisk.sh
#sh make_image.sh
```

새로운 이미지 생성 후 다시 Fusing

### 4. ftp를 이용한 코드 디버깅

AST2500 콘솔(minicom)에서 ipmid과 sms-kcsd 제거

```
[AST /bin]$ killall -9 ipmid  
[AST /bin]$ killall -9 sms-kcsd
```

ftp 서버에서 ipmid과 sms-kcsd 가져와 실행

```
[AST /bin]$ ncftp -u ksh 192.168.20.100  
NcFTP 3.2.5 (Feb 02, 2011) by Mike Gleason  
(http://www.NcFTP.com/contact/).  
  
Copyright (c) 1992-2011 by Mike Gleason.  
All rights reserved.  
  
Connecting to 192.168.20.100...  
(vsFTPD 3.0.2)  
Logging in...  
Password requested by 192.168.20.100 for user "ksh".  
  
    Please specify the password.  
  
Password: *****  
  
Login successful.  
Logged in to 192.168.20.100.  
ncftp /home/ksh > ls  
82599 DPDK Perf.txt                               kernel-3.10.0-229.el7.src.rpm
```

## 5. IPMITOOL 사용

```
[root@localhost ~]# ipmitool user set name 3 admin  
[root@localhost ~]# ipmitool user list
```

ID	Name	Callin	Link Auth	IPMI Msg	Channel Priv Limit
1		true	false	true	ADMINISTRATOR
2	root	true	false	true	ADMINISTRATOR
3	admin	true	false	true	ADMINISTRATOR
4		true	false	true	ADMINISTRATOR
5		true	false	true	ADMINISTRATOR
6		true	false	true	ADMINISTRATOR
7		true	false	true	ADMINISTRATOR
8		true	false	true	ADMINISTRATOR
9		true	false	true	ADMINISTRATOR
10		true	false	true	ADMINISTRATOR
11		true	false	true	ADMINISTRATOR
12		true	false	true	ADMINISTRATOR
13		true	false	true	ADMINISTRATOR
14		true	false	true	ADMINISTRATOR
15		true	false	true	ADMINISTRATOR

16                    true      false      true      ADMINISTRATOR

[root@localhost ~]# ipmitool user set password 3 sys1403

[root@localhost ~]# ipmitool user test 3 16 sys1403

Success

[root@localhost ~]# ipmitool user test 3 16 sys140

Set User Password command failed (user 3): Unknown (0x80)

Failure: password incorrect

[root@localhost ~]#

원격 제어

[pooky@localhost Dev]\$ ipmitool -H 192.168.20.33 -U root sdr

Password:

BB CPU0VRTmp	35 degrees C	ok
BB CPU0mmVRTmp	34 degrees C	ok
BB CPU1VRTmp	32 degrees C	ok
BB CPU1mmVRTmp	32 degrees C	ok
TP CPU2VRTmp	0 degrees C	ok
TP CPU2mmVRTmp	0 degrees C	ok
TP CPU3VRTmp	0 degrees C	ok
TP CPU3mmVRTmp	0 degrees C	ok
BB BMC Tmp	33 degrees C	ok
BB PCH Tmp	30 degrees C	ok
Top board Tmp	0 degrees C	ok
TP PCIe EdgeTmp	0 degrees C	ok
BB CPU0CoreMx2V	1.79 Volts	ok
BB CPU0mmAB1.2V	1.20 Volts	ok
BB CPU0mmCD1.2V	1.19 Volts	ok
BB CPU1CoreMx2V	1.79 Volts	ok
BB CPU1mmEF1.2V	1.20 Volts	ok
BB CPU1mmGH1.2V	1.20 Volts	ok
TP CPU2CoreMx2V	0 Volts	ok
TP CPU2mmRT1.2V	0 Volts	ok
TP CPU3mmJK1.2V	0 Volts	ok
TP CPU3mmLM1.2V	0 Volts	ok
TP CPU3CoreMx2V	0 Volts	ok
TP CPU3mmNP1.2V	0 Volts	ok
BB 1.05V	1.04 Volts	ok
BB 3.3V	3.34 Volts	ok
BB 5V	5.11 Volts	ok

BB 12V	12.12 Volts	ok
TP +3.3V	0 Volts	ok
TP +5V	0 Volts	ok
BB CPU_FAN 0	5031 RPM	ok
BB CPU_FAN 1	4953 RPM	ok
TP CPU_FAN 2	0 RPM	ok
TP CPU_FAN 3	0 RPM	ok
BB SYS_FAN 0	0 RPM	ok
BB SYS_FAN 1	0 RPM	ok
BB SYS_FAN 2	0 RPM	ok
TP SYS_FAN 3	0 RPM	ok
TP SYS_FAN 4	0 RPM	ok
TP SYS_FAN 5	0 RPM	ok
Input current1	14.38 Amps	ok
Output current1	0 Amps	ok
Input voltage1	0 Volts	ok
Output voltage1	14.38 Volts	ok
Input power1	0 Watts	ok
Output power1	0 Watts	ok
Ambient temp1	99.45 degrees C	ok
Hotspot temp1	119.85 degrees	ok
Input current2	0.70 Amps	ok
Output current2	9.72 Amps	ok
Input voltage2	203.83 Volts	ok
Output voltage2	11.95 Volts	ok
Input power2	28 Watts	ok
Output power2	119 Watts	ok
Ambient temp2	25.35 degrees C	ok
Hotspot temp2	29.14 degrees C	ok