















# PS5 EMC Log Viewer Manual

IN-PS5-0053E-xx

SIE Inc. CS Dept.

# Revision list

No.	Rev.	Date	Discription	Drown by	Checked by	Approved by
-	01	2020/11/06	Release			
①	02	2021/04/12	Since the specifications have changed in EmcLogViewer Ver.2.0, pages 5, 9 and 10 were added and pages 4 and 8 were changed.			
②	03	2021/10/01	Added page 6. Fixed a bug related temperature.			
③	04	2021/10/19	Modified according to EmcLogViewer Ver.2.3 Added page 12. Added support file examples at page 8.			

# Introduction

The EMC Log in the Get Information process is normally displayed by Notepad App as shown on the right.

This is difficult for even engineers to understand.

Emc Log Viewer is an application that displays this result so that the technician can understand it to some extent as shown on the next page.

The messages and words displayed are slightly shortened keywords from the documentation of Emc Error Code.

Right now, we haven't accumulated the repair result data from SVCs, so there is no definitive information as to which are you should focus on and which are you should ignore.

Therefore, there is no function such as failure diagnosis yet.

## == Hardware Information ==

```
Board Id       : 179SC205711596A0
Product Serial : AJ22521523
```

## == Emc Error Log ==

#	No	Code	Rtc	PowState	UpCause	SeqNo	DevPm	T(SoC)	T(Env)
#	00	80000009	10929B55	00FF0005	00000100	2157	001E	2780	1B80
#	01	80810001	1088660B	00FF0042	00000000	217C	0004	FFFF	FFFF
#	02	80000009	1088660B	00FF0042	00000000	217C	0004	FFFF	FFFF
#	03	B0088108	10885AA4	00000005	00000100	217B	001E	2B00	1F00
--- Partially omitted ---									
#	3E	00000000	00000000	00000000	00000000	0000	0000	0000	0000

# Introduction(Output sample of Ver.1.0, 1.2)

== Hardware Information ==

Board Id : 179SC205711596A0  
Product Serial : AJ22521523

== Emc Error Log ==

No	Err Code	Rtc	PowState	UpCause	SqNo	DvPm	TSoC	TEnv	RTC_Date	RTC_Time	Error_Code_Descripiton	Power_State_inf	Upc	DevPm	TSoC	TEnv
00	80000009	10929B55	00FF0005	00000100	2157	001E	2780	1800	2020/10/23	02:17:57	AC In Detect	Hst0sOFF:SOC_ON	PBt	HBCU_	40.00	28.00
01	80810001	1088660B	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/10/15	08:27:55	Power Seq Error	Hst0sOFF:_____	___	_C_	--.---	--.---
02	80000009	1088660B	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/10/15	08:27:55	AC In Detect	Hst0sOFF:_____	___	_C_	--.---	--.---
03	B0088108	10885AA4	00000005	00000100	217B	001E	2B00	1F00	2020/10/15	07:39:16	Sonics Bus Error	SysReady:SOC_ON	PBt	HBCU_	43.00	31.00
04	80000009	10885AA4	00000005	00000100	217B	001E	2B00	1F00	2020/10/15	07:39:16	AC In Detect	SysReady:SOC_ON	PBt	HBCU_	43.00	31.00
05	80810001	106C944B	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/09/24	06:01:47	Power Seq Error	Hst0sOFF:_____	___	_C_	--.---	--.---
06	80000009	106C944B	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/09/24	06:01:47	AC In Detect	Hst0sOFF:_____	___	_C_	--.---	--.---
07	80810001	1058901D	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/09/09	01:38:37	Power Seq Error	Hst0sOFF:_____	___	_C_	--.---	--.---
08	80000009	1058901C	00FF0042	00000000	203B	0004	FFFF	FFFF	2020/09/09	01:38:36	AC In Detect	Hst0sOFF:_____	___	_C_	--.---	--.---
09	C0020203	104C9999	000000E5	00000100	217B	000E	2DC0	1E40	2020/08/30	23:51:53	Main SoC Access Err (SB-TSI I2C)	SysReady:_____	PBt	_BCU_	46.50	30.50
0A	80000009	104C9999	00000005	00000100	217B	000E	2DC0	1E40	2020/08/30	23:51:53	AC In Detect	SysReady:SOC_ON	PBt	_BCU_	46.50	30.50
0B	C0010201	10491C82	00FF0001	00000000	2179	0004	FFFF	FFFF	2020/08/28	08:21:22	Main SoC Access Error (I2C)	Hst0sOFF:Stanby	___	_C_	--.---	--.---
0C	C0010201	10490B0D	00FF0001	00000000	2179	0004	FFFF	FFFF	2020/08/28	07:06:53	Main SoC Access Error (I2C)	Hst0sOFF:Stanby	___	_C_	--.---	--.---
0D	808D0003	1022A0A3	00000005	00000100	217B	000E	5F00	2380	2020/07/30	03:46:43	Thermal Shutdown: Local Sensor 3	SysReady:SOC_ON	PBt	_BCU_	95.00	36.00
0E	80830000	1011AE4E	00000005	00000000	217B	000E	2340	1B40	2020/07/17	07:16:30	Main SoC Sync Flood	SysReady:SOC_ON	___	_BCU_	35.50	27.50
0F	80000009	1011AE4E	00000005	00000000	217B	000E	2340	1B40	2020/07/17	07:16:30	AC In Detect	SysReady:SOC_ON	___	_BCU_	35.50	27.50

--- (snip) ---  
3D 00000000  
3E 00000000

# Introduction(Output sample of Ver.2.0 -)

PSS Emc Log Viewer Ver.2.0. Pre.1.1

== Hardware Information ==

Board Id : 40003B00870377A0  
Product Serial : F10A01TWM11250930

-- Valid Errors --

1 80000009 44 AC In Detect  
2 8000000C 3 MSoC Tempr Alert  
3 808D0000 1 Thermal Shutdown: Main SoC

Rank of detected error codes  
However, the handling of the  
80000009 error has changed.  
Even if it is detected alone, it is  
counted as valid.

RTC, TSoC and TEnv changed to the  
specification that the original HEX  
data is not displayed.

== Emc Error Log ==

No	Err Code	RTC_Date	RTC_Time	PowState	UpCause	SqNo	DvPm	TSoC	TEnv	Error_Code_Descripciton	Power_State_inf	Upc	DevPm
3E	*80000009	2012/01/01	18:33:07	00000005	00000100	217B	000E	64.25	27.50	AC In Detect	SysReady:SOC_ON	PBt	_BCU_
3D	*80000009	2012/01/01	19:08:47	00000005	00000100	217B	000E	66.25	29.75	AC In Detect	SysReady:SOC_ON	PBt	_BCU_
--- (snip) ---													
1C	*8000000C	2012/01/08	20:52:41	00000005	00000000	217B	000E	70.75	27.25	MSoC Tempr Alert	SysReady:SOC_ON	___	_BCU_
1B	*8000000C	2012/01/08	21:11:28	00000005	00000000	217B	000E	74.25	28.00	MSoC Tempr Alert	SysReady:SOC_ON	___	_BCU_
1A	*8000000C	2012/01/08	23:03:36	00000005	00000000	217B	000E	72.50	27.00	MSoC Tempr Alert	SysReady:SOC_ON	___	_BCU_
19	*80000009	2012/01/12	20:13:22	00BF0005	00000100	2179	000E	47.50	26.25	AC In Detect	Kernel__:SOC_ON	PBt	_BCU_
--- (snip) ---													
07	*80000009	2012/01/21	19:01:26	00BF0005	00000100	2179	001E	57.50	26.75	AC In Detect	Kernel__:SOC_ON	PBt	HBCU_
06	*80000009	2012/01/21	19:10:01	00000005	00000100	217B	001E	57.25	27.25	AC In Detect	SysReady:SOC_ON	PBt	HBCU_
05	*80000009	2012/01/21	19:15:57	00000005	00000100	217B	001E	58.25	28.00	AC In Detect	SysReady:SOC_ON	PBt	HBCU_
04	*80000009	2012/01/21	19:23:34	00000005	00000100	217B	001E	58.00	27.50	AC In Detect	SysReady:SOC_ON	PBt	HBCU_
03	*80000009 +	2012/01/21	19:28:52	00000005	00000100	217B	001E	58.00	27.25	AC In Detect	SysReady:SOC_ON	PBt	HBCU_
02	C0020303 +	2012/01/21	19:28:52	00000005	00000100	217B	001E	58.00	27.25	Main SoC Access Err (SB-TSI I2C)	SysReady:SOC_ON	PBt	HBCU_
01	*80000009	2012/01/21	20:11:09	00000005	00000100	217B	001E	54.00	27.75	AC In Detect	SysReady:SOC_ON	PBt	HBCU_
00	*808D0000	2012/01/21	20:35:37	00000005	00000000	217B	001E	98.00	23.75	Thermal Shutdown: Main SoC	SysReady:SOC_ON	___	HBCU_

'No' is matched with  
the original data.

Sorted by RTC time. The new one is lower.

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# Introduction(Output sample of Ver.2.2-)

PS5 Emc Log Viewer Ver.2.2

== Hardware Information ==

Board Id : 40003B00870377A0  
Product Serial : F10A01TW11250930

-- Valid Errors (2 months) --

1 808C0D91 1 USB Type-C Error  
2 80000009 1 AC In Detect

← Rank of detected error codes for recent 2 months

-- Valid Errors (All period) --

1 80800000 5 Fatal Shutdown by OS request  
2 80000009 3 AC In Detect  
3 808C0D91 1 USB Type-C Error

← Rank of detected error codes for the entire period

== Emc Error Log ==

No	Err Code	RTC_Date	RTC_Time	PowState	UpCause	SqNo	DvPm	TSoc	TEnv	Error_Code_Descripciton	Power_State_inf	Upc	DevPm
08	*80000009	2020/12/22	11:28:03	00400004	00000000	2057	0004	--	--	AC In Detect	EAP_Redy:EAP_ON	___	___C___
07	*80800000	2021/01/18	12:30:58	00FF0005	00020000	2013	0016	30.00	27.75	Fatal Shutdown by OS request	HstOsOFF:SOC_ON	EAP	H_CU_
06	*80800000	2021/01/24	01:38:24	00FF0005	00020000	2013	0016	34.00	27.75	Fatal Shutdown by OS request	HstOsOFF:SOC_ON	EAP	H_CU_
05	*80800000	2021/01/30	10:56:33	00FF0005	00020000	2013	0016	32.25	28.25	Fatal Shutdown by OS request	HstOsOFF:SOC_ON	EAP	H_CU_
04	*80800000	2021/02/08	10:50:17	00FF0005	00020000	2013	0016	32.25	28.50	Fatal Shutdown by OS request	HstOsOFF:SOC_ON	EAP	H_CU_
03	*80800000	2021/02/10	06:12:20	00FF0005	00020000	2013	0016	31.75	28.50	Fatal Shutdown by OS request	HstOsOFF:SOC_ON	EAP	H_CU_
02	*80000009	2021/05/13	07:22:21	FF400004	00000000	2057	0004	--	--	AC In Detect	EAP_Redy:EAP_ON	___	___C___
01	*808C0D91	2021/07/11	02:25:22	12000005	00040000	217B	001E	34.54	29.68	USB Type-C Error	SysReady:SOC_ON	CEC	HBCU_
00	*80000009	2021/07/19	07:15:53	FF400004	00000000	2057	0004	--	--	AC In Detect	EAP_Redy:EAP_ON	___	___C___
09	00000000												

Sorted by RTC time. The new one is lower.

'No' is matched with the original data.

# Install

- Unzip the provided zip file and copy them to your PC so that it has the following configuration.

C:\¥EmcLogTool

EmcLogViewer.exe  
set\_emclog.exe  
viewer.cfg

Do not change the file name and folder name.

# How to use

- **Cooperation with jig software**

- When you execute the jig software, execute [EmcLogViewer.exe](#), too.
- If installed properly, the Emc Log will be displayed in EmcLogViewer instead of Notepad.
- If you forget to execute it in advance, it will boot automatically.
- It takes a few seconds to start, so it is better not to close the program when moving to the next console.

- **Use alone**

- Execute [EmcLogViewer.exe](#).
- From the File menu, you can open the Emc Log file.



## Support file examples

- [EmcErrorLog\\_202108130005SG001\\_F11601TWW11639214\\_40002A02710052A0\\_20210811\\_092629.txt](#)
- [collect\\_log.txt](#)
- [JigLog-40003B01003353A0\\_CSDISI\\_00000\\_04\\_20210621\\_163816.log](#)



# Explanation of Emc Log Viewer output (Ver.1.0, 1.2)

Original item names  
SeqNo DevPm T(SoC) T(Env)

Decoded RTC to GMT

Display T (Soc), T (Env) in Celsius

No	Err Code	Rtc	PowState	UpCause	SqNo	DvPm	TSoC	TEnv	RTC_Date	RTC_Time	Error_Code_Descripciton	Power_State_inf	UpC	DevPm	TSoC	TEnv
00	80000009	10929B55	00FF0005	00000100	2157	001E	2780	1880	2020/10/23	02:17:57	AC In Detect	Hst0sOFF:SOC_ON	PBT	HBCU	40.00	28.00
01	80810001	1088660B	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/10/15	08:27:55	Power Seq Error	Hst0sOFF:_____	_____C	_____	_____	_____
02	80000009	1088660B	00FF0042	00000000	217C	0004	FFFF	FFFF	2020/10/15	08:27:55	AC In Detect	Hst0sOFF:_____	_____C	_____	_____	_____
03	B0088108	10885AA4	00000005	00000100	217B	001E	2B00	1F00	2020/10/15	07:39:16	Sonics Bus Error	SysReady:SOC_ON	PBT	HBCU	43.00	31.00

**Power\_State\_inf(First half)**

SysReady: SYSTEM Ready  
MaOnStby: Main On Standby  
Reserved: Reserved  
PSP\_\_\_\_: PSP  
BIOS\_\_\_\_: BIOS  
EAP\_Redy: EAP READY  
EAP\_\_\_\_: EAP  
Kernel\_\_: Kernel  
IntPrCSS: Init Process  
Hst0sOFF: HOSTOS\_OFF

**Power\_State\_inf(Second half)**

ACIN\_L : ACIN\_L  
Stanby : STANDBY  
PG2\_ON : PG2\_ON  
EFC\_ON : EFC\_ON  
EAP\_ON : EAP\_ON  
SOC\_ON : SOC\_ON  
ErrDET : ERROR\_DET  
FtlErr : FATAL\_ERROR  
NvrBot : NEVER\_BOOT  
FrcOFF : Forced OFF  
FofBTd : BT FW Download  
\_\_\_\_ : Not disclosed

**UpC(UpCause)**

URT : UARTcommand  
BT : Bluetooth(PS button of DualSense)  
CEC : HDMI-CEC  
EAP : EAP's order  
SoC : Main SoC's order  
Ejc : Eject button inside Disc  
DLd : Insert Disc  
PBT : Power button  
BPW : Power supplied from PSU

**DevPm(Device power management information)**

**State when the left character exists**

H : HDMI 5V ON  
B : BD Drive ON  
C : HDMI CEC Function enabled  
U : USB VBUS output ON  
W : WiFi power ON

# Explanation of Emc Log Viewer output (Ver.2.0-)

Decoded RTC to GMT

Original item names  
SeqNo DevPm T(SoC) T(Env)

No	Err Code	RTC_Date	RTC_Time	PowState	UpCause	SeqNo	DevPm	T(SoC)	T(Env)	Error_Code_Descripciton	Power_State_inf	Upc	DevPm
3E	*80000009	2012/01/01	18:33:07	00000005	00000100	217B	000E	64.25	27.50	AC In Detect	SysReady:SOC_ON	PBt	_BCU_
3D	*80000009	2012/01/01	19:08:47	00000005	00000100	217B	000E	66.25	29.75	AC In Detect	SysReady:SOC_ON	PBt	_BCU_
3C	*80000009	2012/01/01	19:48:29	00000005	00000100	217B	000E	70.25	32.00	AC In Detect	SysReady:SOC_ON	PBt	_BCU_
3B	*80000009	2012/01/02	20:54:33	00000005	00000100	217B	000E	57.75	27.00	AC In Detect	SysReady:SOC_ON	PBt	_BCU_

**Power\_State\_inf(First half)**

SysReady: SYSTEM Ready  
 MaOnStby: Main On Standby  
 Reserved: Reserved  
 PSP\_\_\_\_: PSP  
 BIOS\_\_\_\_: BIOS  
 EAP\_Redy: EAP READY  
 EAP\_\_\_\_: EAP  
 Kernel\_\_: Kernel  
 IntPrCSS: Init Process  
 HstOsOFF: HOSTOS\_OFF

**Power\_State\_inf(Second half)**

ACIN\_L : ACIN\_L  
 Standby : STANDBY  
 PG2\_ON : PG2\_ON  
 EFC\_ON : EFC\_ON  
 EAP\_ON : EAP\_ON  
 SOC\_ON : SOC\_ON  
 ErrDET : ERROR\_DET  
 FtlErr : FATAL\_ERROR  
 NvrBot : NEVER\_BOOT  
 FrcOFF : Forced OFF  
 FofBTd : BT FW Download  
 \_\_\_\_ : Not disclosed

**Upc(Upcause)**

URT : UARTcommand  
 BT : Bluetooth(PS button of DualSense)  
 CEC : HDMI-CEC  
 EAP : EAP's order  
 SoC : Main SoC's order  
 Ejc : Eject button inside Disc  
 DLd : Insert Disc  
 PBt : Power button  
 BPW : Power supplied from PSU

**DevPm(Device power management information)**

**State when the left character exists**

H : HDMI 5V ON  
 B : BD Drive ON  
 C : HDMI CEC Function enabled  
 U : USB VBUS output ON  
 W : WiFi power ON

# Note

- The handling of the 80000009 error has changed.  
Even if it is detected alone, it is counted as valid.  
Most of the detected power cords are presumed to be unplugged by the user.



# Bug

- If you encounter a problem that you cannot continue to use it, please uninstall it or rename the folder to another name.
- Then the Jig software will work with Notepad.