

# GSP Log Analysis Flowchart

Presented by WTEC CPU Hardware Team

Rev. 1.3  
Aug/26/2002

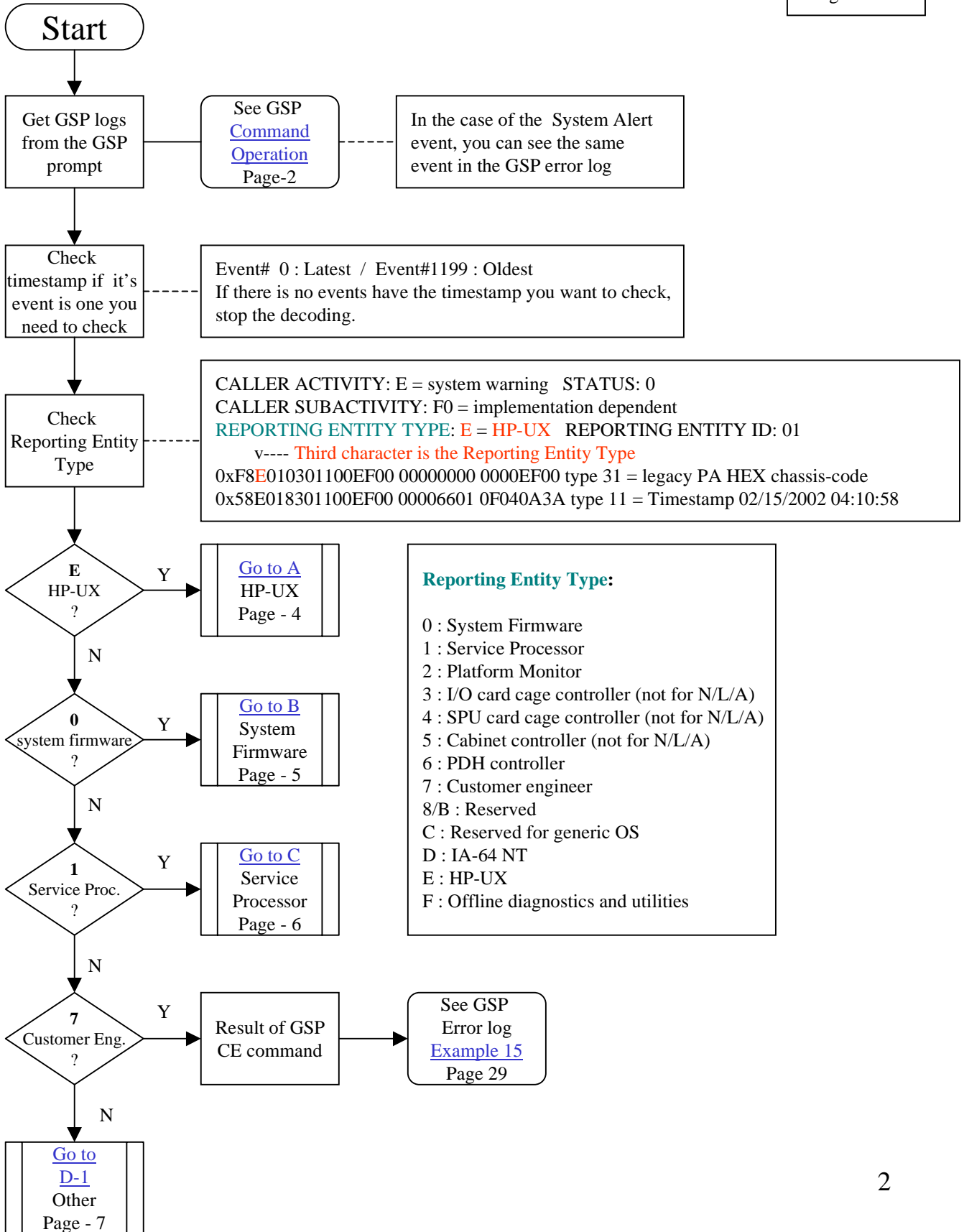
This flowchart is using the Hyperlink function. You can jump to appropriate section by clicking [Blue](#) line.

## Index

- P - 02 : [Start](#) of the Flowchart
- 03 : [GSP](#) Command Operation
- 04 : [Section A](#) - Reporting Entity E / HP-UX
- 05 : [Section B](#) - Reporting Entity 0 / System Firmware
- 06 : [Section C](#) - Reporting Entity 1 / Service Processor
- 07 : [Section D-1](#) - Reporting Entity / Other
- 08 : [Section D-2](#) - Reporting Entity / Other
- 09 : [Section E-1](#) - On the fly I/O Chassis Code
- 10 : [Section E-2](#) - On the fly I/O Chassis Code
- 11 : [Section E-3](#) - On the fly I/O Chassis Code
- 12 : [Section E-4](#) - On the fly I/O Chassis Code
- 13 : [Example 1](#) - System Firmware / Chassis code 0x000000**63890014C0**
- 14 : [Example 2](#) - System Firmware / Chassis code 0x200000**6683FF2164** , 0x200000**4383FF2043**
- 15 : [Example 3](#) - System Firmware / Chassis code 0x200010**6683FF2164** , 0x200018**6083FF1192**
- 16 : [Example 4](#) - System Firmware / Chassis code 0x000000**2685002004**
- 17 : [Example 5](#) - System Firmware / Chassis code 0x480000**60300027B0**
- 18 : [Example 6](#) - System Firmware / Chassis code 0x200000**2D74006123**
- 19 : [Example 7](#) - System Firmware / Chassis code 0x200010**2374FF6B83**
- 20 : [Example 8](#) - System Firmware / Chassis code 0x180010**8072FF2284**
- 21 : [Example 9](#) - System Firmware / Chassis code 0x980020**6024021213**
- 22 : [Example 10](#) - System Firmware / Chassis Code 0x200000**2483FF6352**
- 23 : [Example 11A](#) - Service Processor / Chassis code 0x7010028166002030
- 24 : [Example 11B](#) - Service Processor / Chassis code **0xF010011166002030**
- 25 : [Example 11C](#) - Service Processor / Chassis code 0xf010021166002030
- 26 : [Example 12](#) - Service Processor / Chassis code 0x5810086466001010
- 27 : [Example 13](#) - Power Monitor / Chassis code 0x002000E444FF404F
- 28 : [Example 14](#) - Power Monitor / Chassis code 0x002000646303405F
- 29 : [Example 15](#) - Customer Engineer / Chassis code 0x4870026066000000
- 30 : [Example 16](#) - HP-UX / Chassis code 0x00E000616100**D000** , 0x00E000516100**E000**

# GSP Log Analysis Flowchart

Rev. 1.3  
Aug/26/2002



# < GSP Command Operation >

Rev. 1.3  
Aug/26/2002

GenericSysName [HP Release B.11.00] (see /etc/issue)

Console Login:

<< Type CNTL-B >>

Leaving Console Mode - you may lose write access.

When Console Mode returns, type ^Ecf to get console write access.

<< You may need to type CNTL+e c f to get the console access >>

GSP Host Name: hpujrcx

GSP> **SL**

Select Chassis Code Buffer to be displayed:

Incoming, Activity, Error, Current boot or Last boot? (I/A/E/C/L) **E**

Set up filter options on this buffer? (Y/[N]) **N**

The first entry is the most recent Chassis Code

Type + CR and CR to go up (back in time),

Type - CR and CR to go down (forward in time),

Type Q/q CR to quit.

Log Entry # 0 :

SYSTEM NAME: hpujrcx

DATE: 02/15/2002 TIME: 04:10:58

ALERT LEVEL: 3 = System blocked waiting for operator input

SOURCE: 1 = processor

SOURCE DETAIL: 1 = processor general SOURCE ID: 0

PROBLEM DETAIL: 0 = no problem detail

CALLER ACTIVITY: E = system warning STATUS: 0

CALLER SUBACTIVITY: F0 = implementation dependent

REPORTING ENTITY TYPE: E = HP-UX REPORTING ENTITY ID: 01

**0xF8E010301100EF00** 00000000 0000EF00 type 31 = legacy PA HEX chassis-code

0x58E018301100EF00 00006601 0F040A3A type 11 = Timestamp 02/15/2002 04:10:58

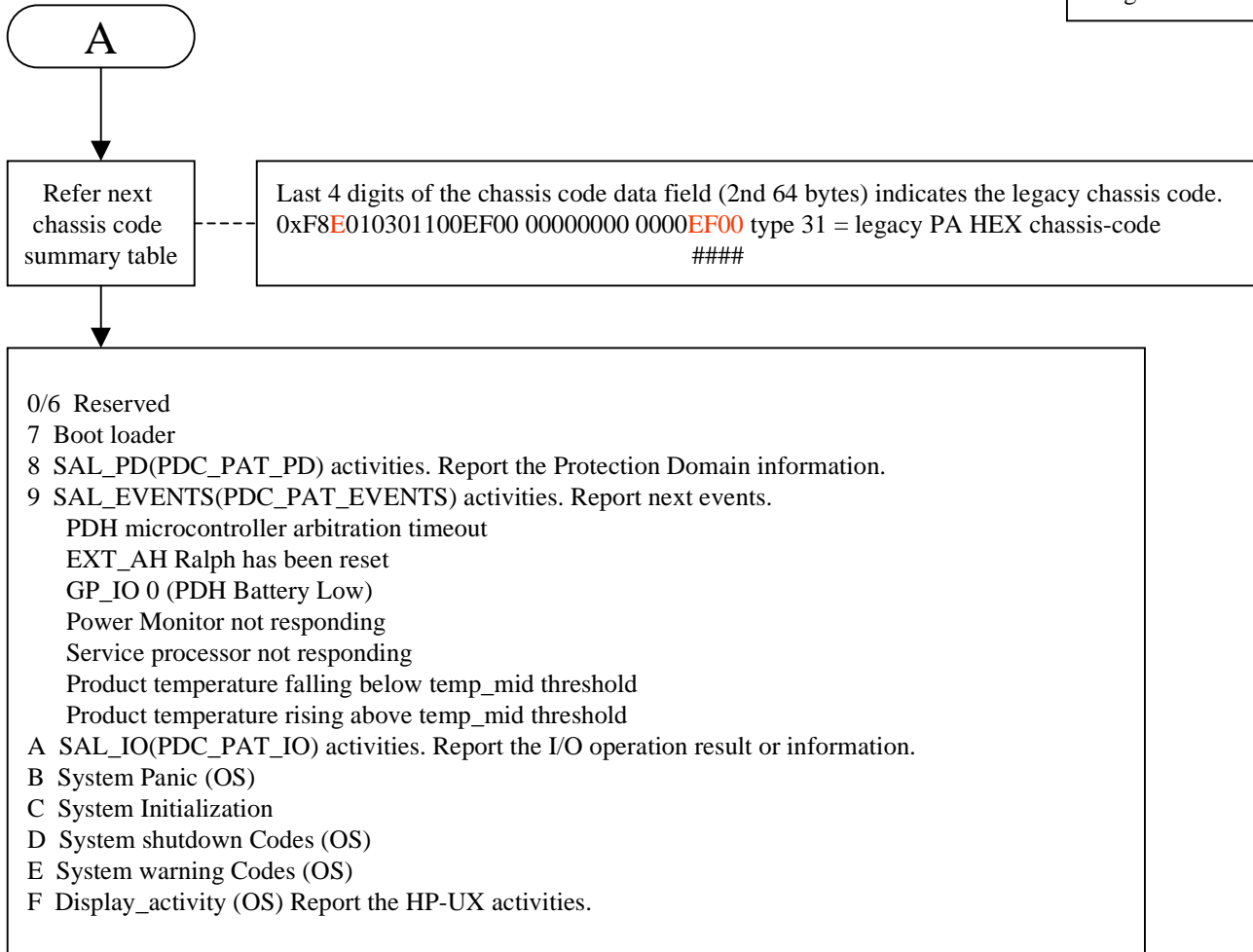
Type CR for next entry, Q CR to quit.

## Note:

- 1) GSP has 5 kinds of log, Incoming, Activity, Error, Current boot or Last boot.
- 2) Most important log for your troubleshooting is normally Error log. However, it is better you check other logs if no suspect error you can find with the Error log.
- 3) GSP log provides you summary of events. If you need to check detail of the events, you need to decode the 64 bytes chassis code. In the above case, **0xF8E010301100EF00** is the chassis code and subsequent 64bytes are the data field. The chassis code (Exxx) indicates the system warning and Alert Level 3 indicates "System blocked waiting for operator input". You may need to check the console message if any operator input request is displayed.
- 4) You can get the recent console message copy with GSP> **CL** command.  
CL : Console Log- view console history
- 5) Entry #0 is the latest event and oldest number is the oldest event. You need to check the timestamp always to prevent the confusion of the log sequence.

# < Reporting Entity E / HP-UX >

Rev. 1.3  
Aug/26/2002



## Example: REPORTING ENTITY TYPE: E = HP-UX (Another example -> [Example 16](#))

Next chassis code indicates that HP-UX detected some system hang and sent this chassis code to the GSP. This event itself does not indicate any hardware problem. If this is one time occurrence, you can ignore it. We suggest you will verify if the system experienced any system hang or slow performance during the time around this event.

Log Entry # 0 :

SYSTEM NAME: THNBK03

DATE: 07/09/2001 TIME: 08:08:06

ALERT LEVEL: 13 = System hang detected via timer popping

SOURCE: 1 = processor

SOURCE DETAIL: 1 = processor general SOURCE ID: 0

PROBLEM DETAIL: 4 = timeout

CALLER ACTIVITY: F = display\_activity() update STATUS: 0

CALLER SUBACTIVITY: 00 = implementation dependent

REPORTING ENTITY TYPE: E = HP-UX REPORTING ENTITY ID: 00

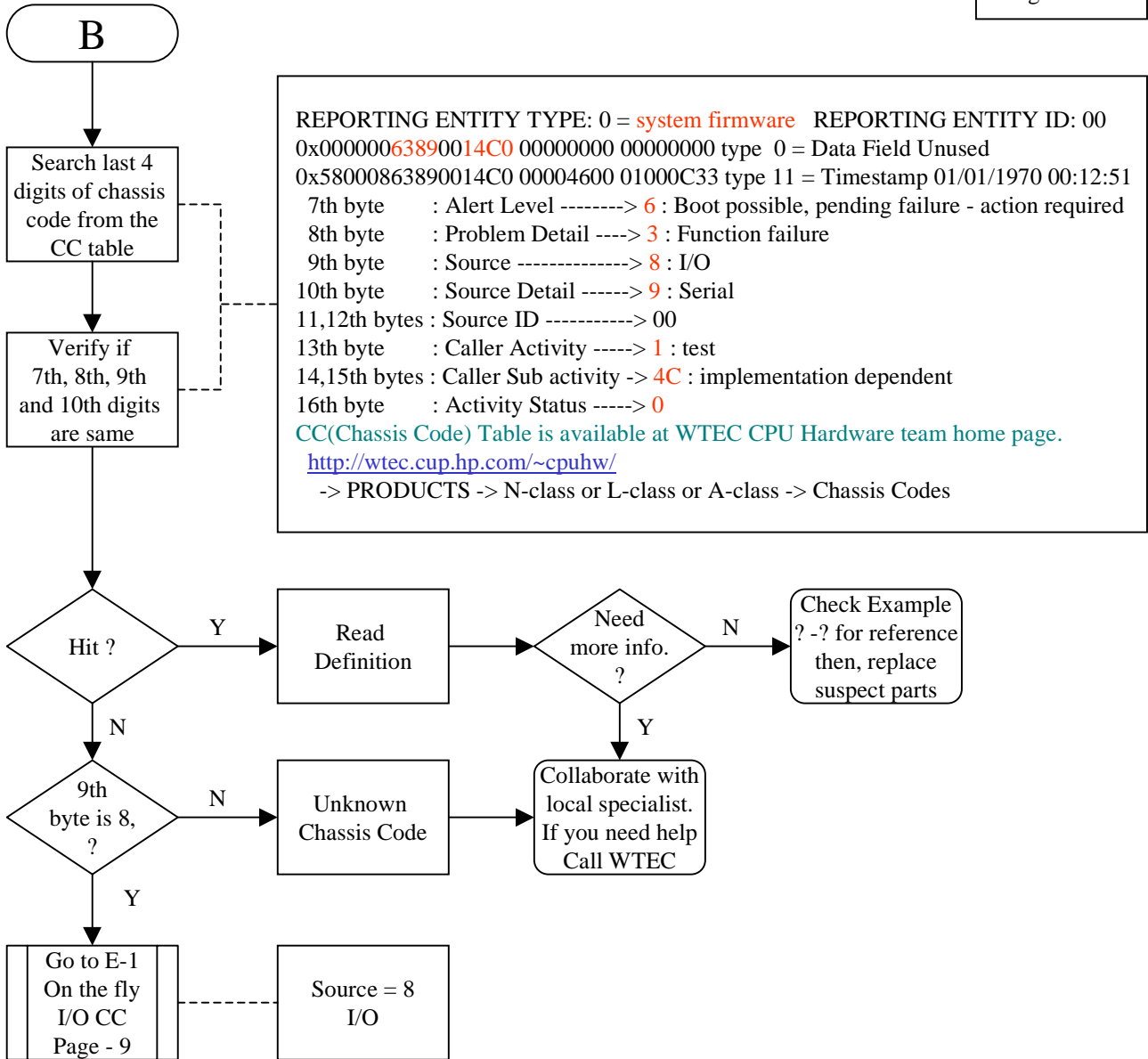
0x78E000D41100F000 00000003 00000002 type 15 = Activity Level/Timeout

0x58E008D41100F000 00006506 09080806 type 11 = Timestamp 07/09/2001 08:08:06

Type CR for next entry, Q CR to quit.

# < Reporting Entity 0 / System Firmware >

Rev. 1.3  
Aug/26/2002



REPORTING ENTITY TYPE: 0 = **system firmware** REPORTING ENTITY ID: 00  
 0x000000**63890014C0** 00000000 00000000 type 0 = Data Field Unused  
 0x58000863890014C0 00004600 01000C33 type 11 = Timestamp 01/01/1970 00:12:51  
 7th byte : Alert Level -----> **6** : Boot possible, pending failure - action required  
 8th byte : Problem Detail ----> **3** : Function failure  
 9th byte : Source -----> **8** : I/O  
 10th byte : Source Detail -----> **9** : Serial  
 11,12th bytes : Source ID -----> 00  
 13th byte : Caller Activity ----> **1** : test  
 14,15th bytes : Caller Sub activity -> **4C** : implementation dependent  
 16th byte : Activity Status ----> **0**  
 CC(Chassis Code) Table is available at WTEC CPU Hardware team home page.  
<http://wtec.cup.hp.com/~cpuhw/>  
 -> PRODUCTS -> N-class or L-class or A-class -> Chassis Codes

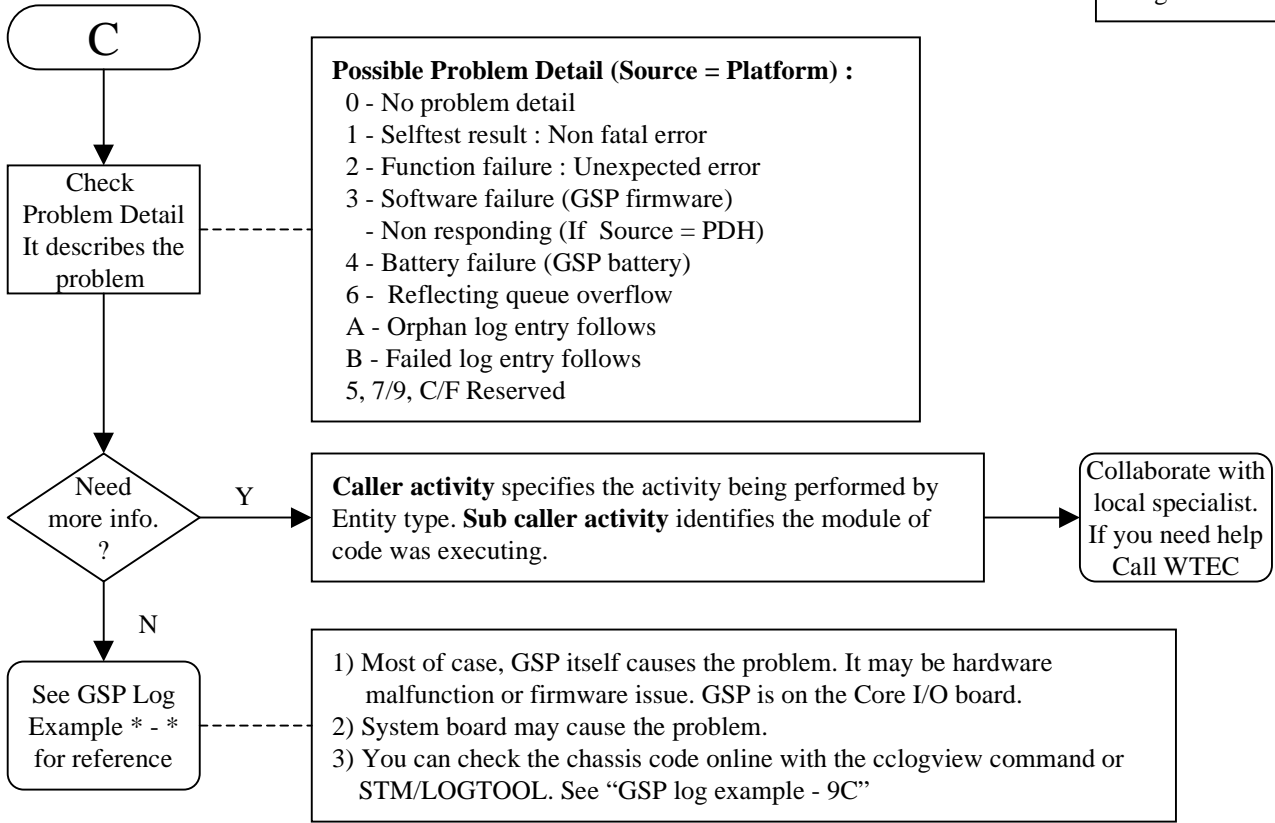
**Example: REPORTING ENTITY TYPE: 0 = system firmware**

REPORTING ENTITY TYPE: 0 = **system firmware** REPORTING ENTITY ID: 00  
 0x000000**63890014C0** 00000000 00000000 type 0 = Data Field Unused  
 0x58000863890014C0 00004600 01000C33 type 11 = Timestamp 01/01/1970 00:12:51

- 1) Search "14C0" from the chassis code.
- 2) Hit **0x00000863890014c0 CC\_BOOT\_NO\_GO\_SS\_CONS** . 9th and 10th bytes are same.
- 3) This definition says boot process failed with the console path configured in the SS(Stable Storage).
- 4) Most suspect is incorrect console path setting. Check the console path from the BCH/Configuration or Information menu. You can update the console path with the BCH> co pa con \*/\*/\*/.\* .
- 5) If console path is configured correctly, replace the system board.

# < Reporting Entity 1 /Service Processor >

Rev. 1.3  
Aug/26/2002



## Example: REPORTING ENTITY TYPE: 1 = service processor

Check the Problem Detail description. It is selftest result and just indicates GSP reported the selftest result after the GSP reset. To understand the reason of the GSP reset, you need to check the GSP activity log. It should have an entry of the chassis code **0xF\*\*\*\*\*1166002030** which has the description **reset type and cause**. Subsequent 16 bytes data field indicates the "reset type and cause". See more detail on the "selftest result" case at "GSP log example - 9A and 9B".

```

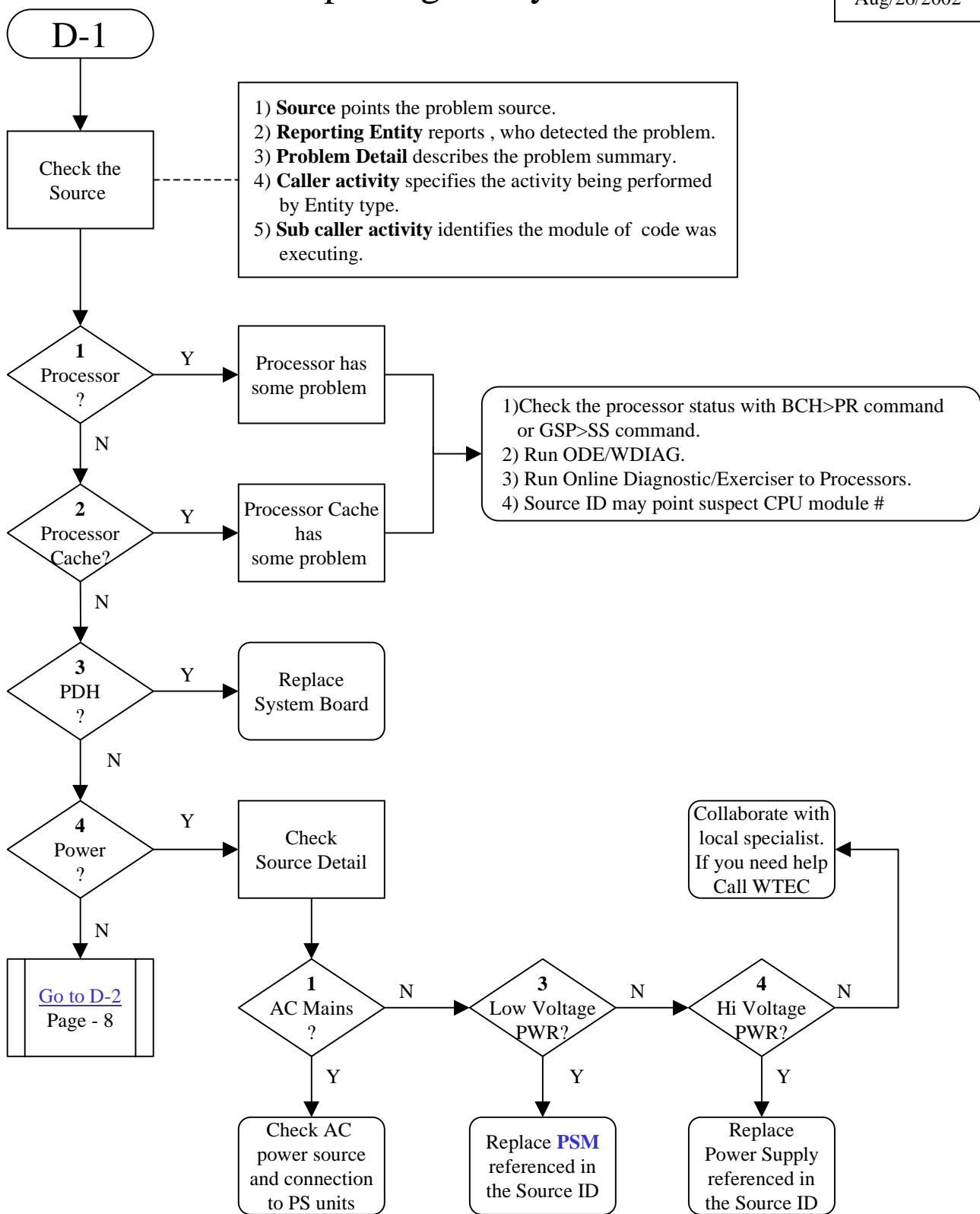
Log Entry # 1 :
SYSTEM NAME: mahlercon
DATE: 02/06/2002 TIME: 03:44:07
ALERT LEVEL: 8 = Boot Possible, performance impaired
SOURCE: 6 = platform
SOURCE DETAIL: 6 = service processor SOURCE ID: 0
PROBLEM DETAIL: 1 = selftest result
CALLER ACTIVITY: 2 = operation STATUS: 0
CALLER SUBACTIVITY: 03 = console
REPORTING ENTITY TYPE: 1 = service processor REPORTING ENTITY ID: 00
  
```

```

0x7010028166002030 0B0010FF 00000000 type 14 = Problem Detail
0x4810028166002030 53415332 52616C70 type 9 = ASCII Message SAS2Ralp
0x4810028166002030 7372632F 4C4F4765 type 9 = ASCII Message src/LOGe
0x7010028166002030 0106013C 60000013 type 14 = Problem Detail
0x58100A8166002030 00006601 06032C07 type 11 = Timestamp 02/06/2002 03:44:07
  
```

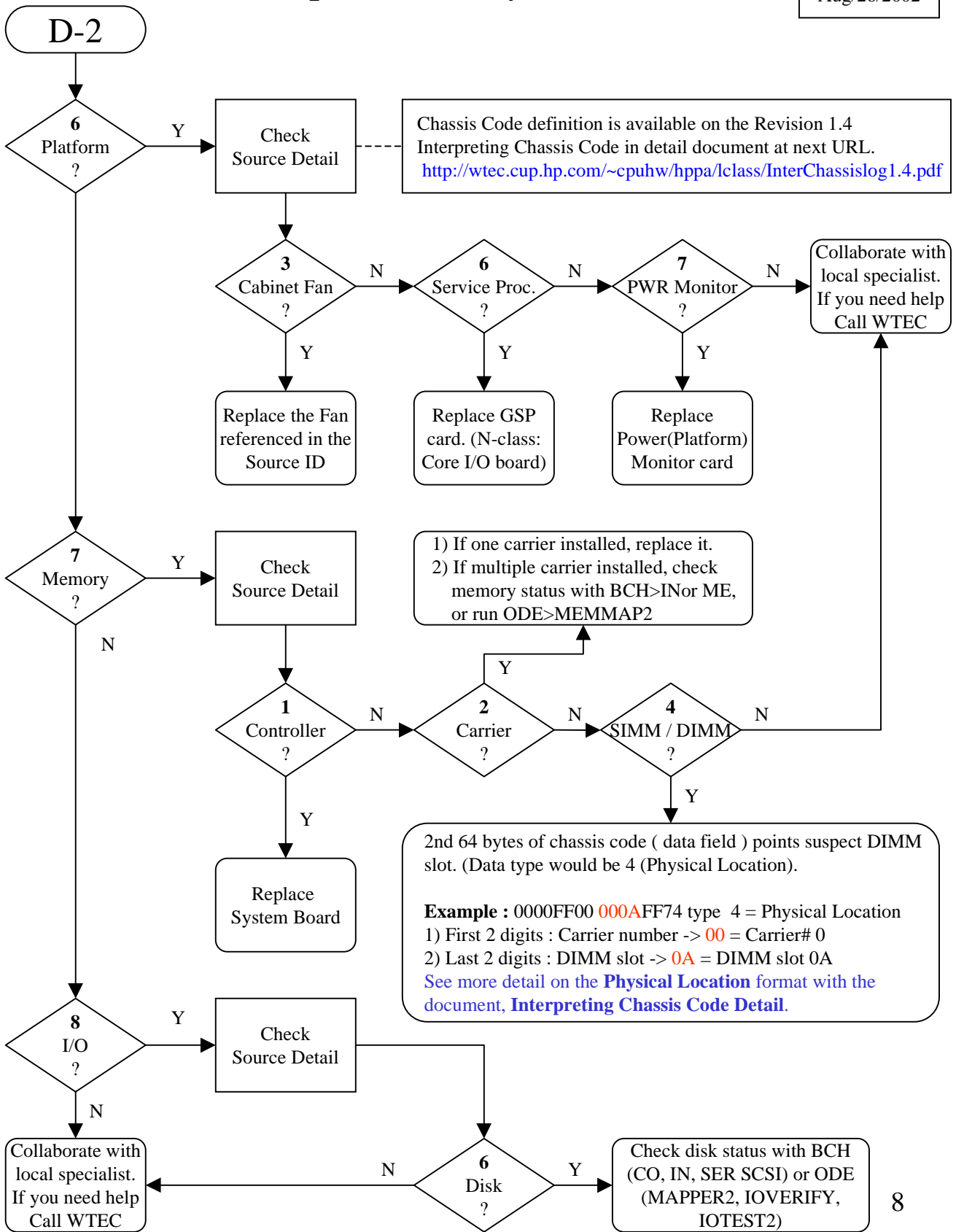
# < Reporting Entity / Other >

Rev. 1.3  
Aug/26/2002



# < Reportinh Entity / Other >

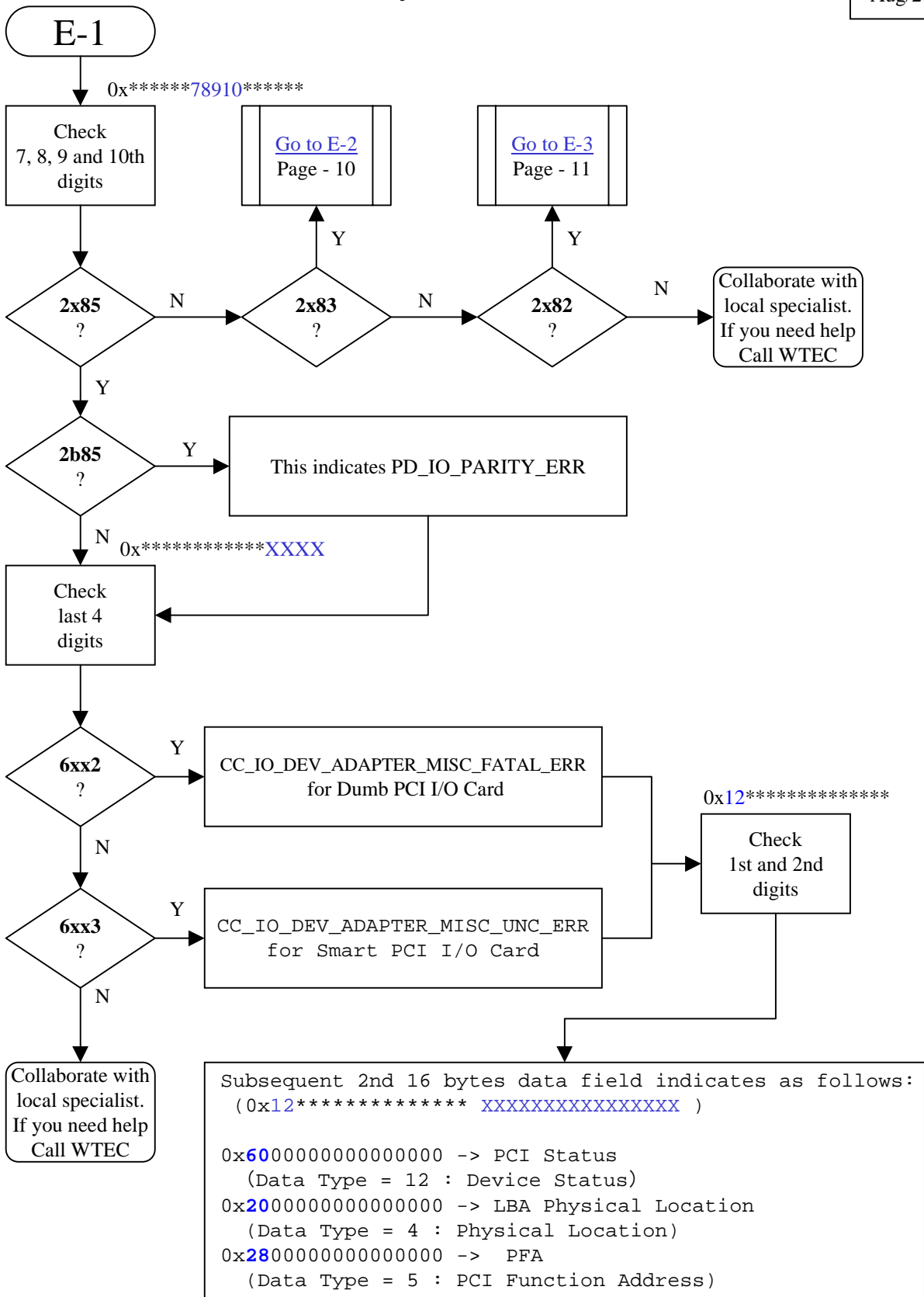
Rev. 1.3  
Aug/26/2002





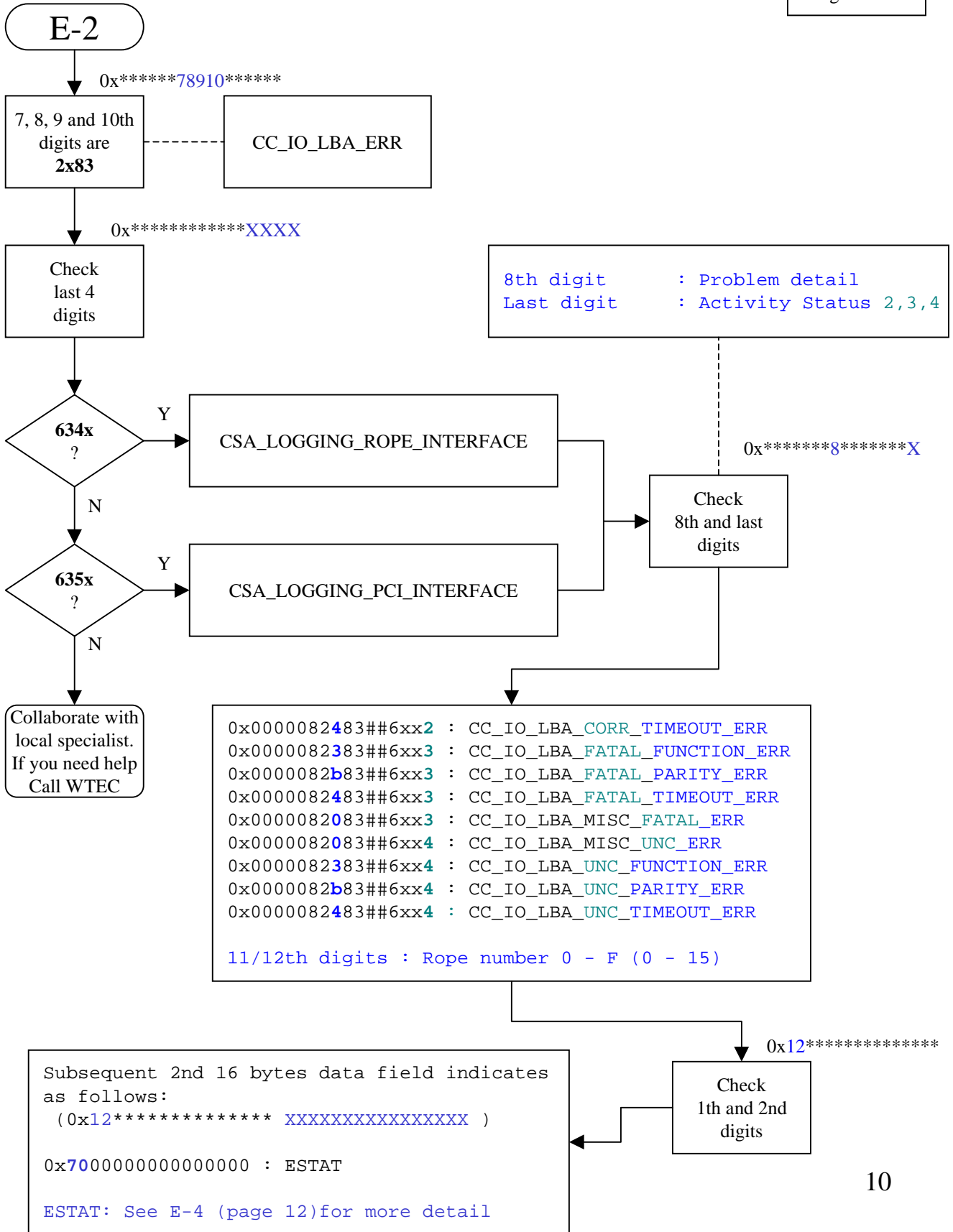
# < On the fly I/O Chassis Code >

Rev. 1.3  
Aug/26/2002



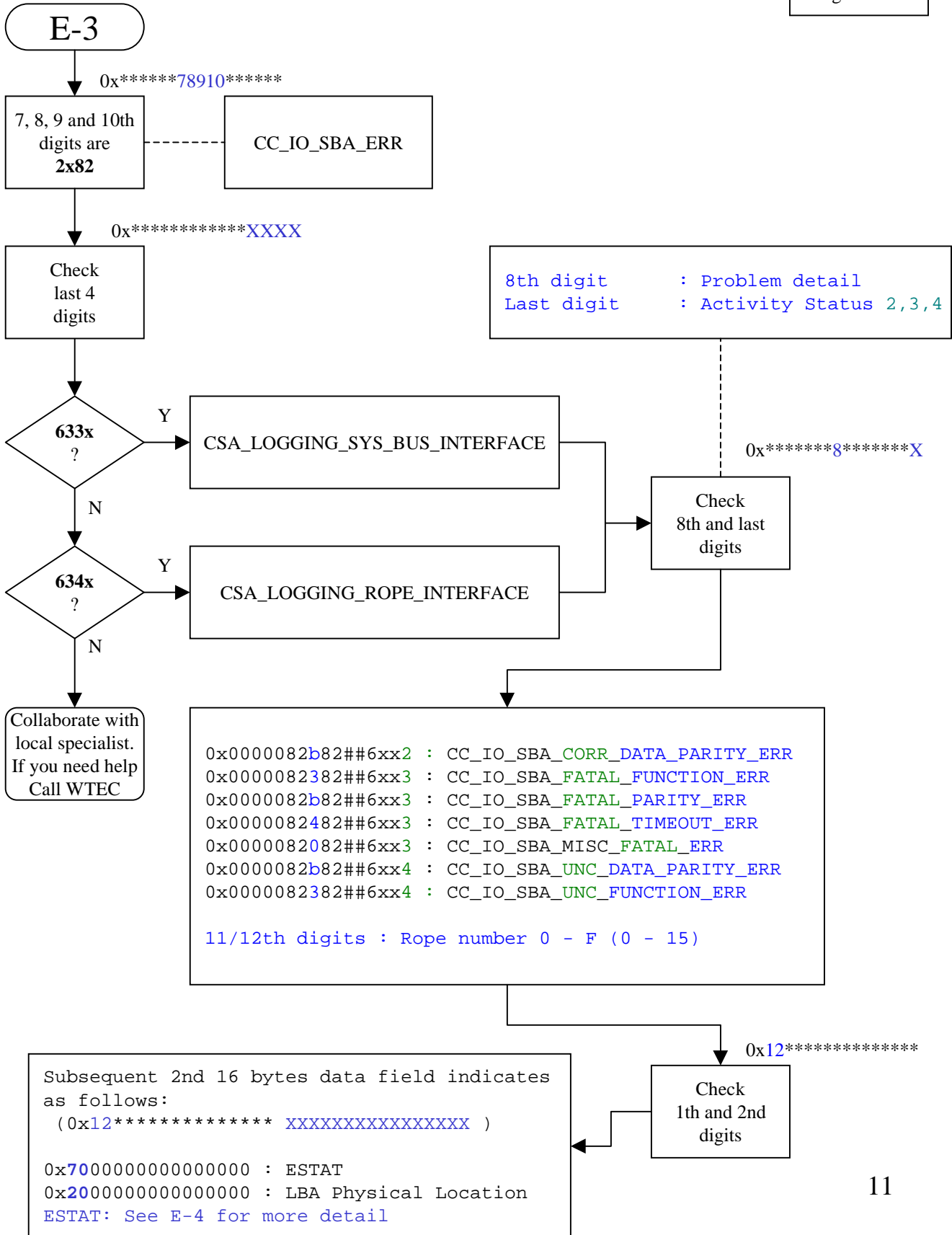
# < On the fly I/O Chassis Code >

Rev. 1.3  
Aug/26/2002



# < On the fly I/O Chassis Code >

Rev. 1.3  
Aug/26/2002



## < On the fly I/O Chassis Code >

Rev. 1.3  
Aug/26/2002

E-4

### ESTAT Definition

The esat word in the data field for certain chassis codes follows the architected format defined in the SPPA Error Handling EAS. The bit fields are defined below with little endian bit numbering:

ESTAT_C2C	0x01000000	// Bit 24
ESTAT_OVERFLOW	0x00800000	// Bit 23
ESTAT_REQUESTOR	0x00400000	// Bit 22
ESTAT_RESPONDER	0x00200000	// Bit 21
ESTAT_ERR_FUNCTION	0x00070000	// Bits 16-20
ESTAT_ERR_MAP	0x00110000	
ESTAT_ERR_IMPROPER	0x00130000	
ESTAT_ERR_PARITY	0x00170000	
ESTAT_ERR_ERROR	0x00190000	
ESTAT_ERR_TIMEOUT	0x001a0000	
ESTAT_ADDRESS	0x00004000	// Bit 14
ESTAT_CONTROL	0x00002000	// Bit 13
ESTAT_DATA	0x00001000	// Bit 12
ESTAT_CORRECTED	0x00000800	// Bit 11
ESTAT_UNCORR	0x00000400	// Bit 10
ESTAT_FATAL	0x00000200	// Bit 9
ESTAT_CONTAIN_WARN	0x00000100	// Bit 8

Example: Next ESTAT indicates The requestor detected the correctable data parity error. The correctable error does not cause any system failure like the memory single bit parity error.

```
0x0057180 : ESTAT_REQUESTOR    0x00400000
            ESTAT_ERR_PARITY    0x00170000
            ESTAT_DATA          0x00001000
            ESTAT_CORRECTED     0x00000800
```

# < GSP Log Example - 1 >

Rev. 1.3  
Aug/26/2002

**REPORTING ENTITY TYPE: 0 = system firmware**

Search "14c0" from the chassis code table. It is **CC\_BOOT\_NO\_GO\_SS\_CONS** . Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "6389" . The problem is no console cannot be found with the console path configured in the Stable Storage (NVRAM). Most suspect is incorrect console path setting.

If this was happened after replacing the system card, the system may have the revision B GSP card and replacement system card console path is configured to 0/0/4/0. Configure it to 0/0/4/1 with the BCH command "PA (Path)".

,  
=====

Entry # 0 :  
SYSTEM NAME: ZestaConsole  
DATE: 01/01/1970 TIME: 00:12:51  
ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 8 = I/O  
SOURCE DETAIL: 9 = serial SOURCE ID: 0  
PROBLEM DETAIL: 3 = functional failure

CALLER ACTIVITY: 1 = test STATUS: 0  
CALLER SUBACTIVITY: 4C = implementation dependent  
REPORTING ENTITY TYPE: 0 = **system firmware** REPORTING ENTITY ID: 00

0x00000063890014C0 00000000 00000000 type 0 = Data Field Unused  
0x58000863890014C0 00004600 01000C33 type 11 = Timestamp 01/01/1970 00:12:51  
Type CR for next entry, Q CR to quit.

## < GSP log example - 2 >

Rev. 1.3  
Aug/26/2002

### REPORTING ENTITY TYPE: 0 = system firmware

1) Search "2164" from the chassis code table. Hit **IO\_CHECK\_LBA\_MISSING\_ERR**. Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "6683". The problem is the configuration error with LBA (Lower Bus Adapter). 2nd 64bytes data points the suspect **Physical Location**. This is N4000 system and **FF FF0AFF83** is mapped to the LBA for I/O slot 10 (path 1/2/0).

2) Look at Log Entry # 1 as well. Chassis code indicates **IO\_SLOT\_POWER\_ON\_ERROR**. 2nd 64bytes data points same **Physical Location**. **FF FF0AFF83**. It looks like I/O slot power is off. Most suspect is the PCI I/O backplane problem. Other suspect is the I/O card itself. External device hooked to the I/O card also may cause this problem. The I/O slot power LED (GREEN) should be ON.

-----  
Log Entry # 0 :

SYSTEM NAME: uninitialized

DATE: 04/15/2001 TIME: 13:34:47

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 8 = I/O

SOURCE DETAIL: 3 = local bus adapter SOURCE ID: FF

PROBLEM DETAIL: 6 = configuration error

CALLER ACTIVITY: 2 = config STATUS: 4

CALLER SUBACTI: 16 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 00

0x2000006683FF2164 000000FF FF0AFF83 type 4 = **Physical Location**

0x5800086683FF2164 00006503 0F0D222F type 11 = Timestamp 04/15/2001 13:34:47

Log Entry # 1 :

SYSTEM NAME: uninitialized

DATE: 04/15/2001 TIME: 13:34:16

ALERT LEVEL: 4 = Unexpected configuration change detected

SOURCE: 8 = I/O

SOURCE DETAIL: 3 = local bus adapter SOURCE ID: FF

PROBLEM DETAIL: 3 = function failure

CALLER ACTIVITY: 2 = config STATUS: 3

CALLER SUBACTIVITY: 04 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 00

0x2000004383FF2043 000000FF FF0AFF83 type 4 = **Physical Location**

0x5800084383FF2043 00006503 0F0D2210 type 11 = Timestamp 04/15/2001 13:34:16

## < GSP log example - 3 >

Rev. 1.3  
Aug/26/2002

### REPORTING ENTITY TYPE: 0 = system firmware

1) Search "2164" from the chassis code table. Hit **IO\_CHECK\_LBA\_MISSING\_ERR**. Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "6683". The problem is the configuration error with LBA (Lower Bus Adapter). 2nd 64bytes data points the suspect **Physical Location**. This is N4000 system and **FF FF04FF83** is mapped to the LBA for I/O slot 4 (path 0/8/0).

2) Look at Log Entry # 1 as well. There are 4 events for "1192". Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "6683". Hit 1 entry. The problem is **CC\_IO\_IKE\_CACHE\_TEST\_LOOPBACK\_ERR**. 2nd 64bytes data points same **Physical Location**. **FF FF04FF83**. This indicates IKE for slot 4 detected the cache test error. Most suspect is the system board and second is the PCI I/O Backplane. We suggest you will run ODE>IKEDIAG.

=====

Log Entry # 0 :

SYSTEM NAME: uninitialized

DATE: 11/23/2001 TIME: 04:47:02

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 8 = I/O

SOURCE DETAIL: 3 = local bus adapter SOURCE ID: FF

PROBLEM DETAIL: 6 = configuration error

CALLER ACTIVITY: 2 = config STATUS: 4

CALLER SUBACTIVITY: 16 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 01

0x2000106683FF2164 000202FF FF04FF83 type 4 = Physical Location

0x5800106683FF2164 0000650A 17042F02 type 11 = Timestamp 11/23/2001 04:47:02

Type CR for next entry, Q CR to escape.

Log Entry # 1 :

SYSTEM NAME: uninitialized

DATE: 11/23/2001 TIME: 04:47:02

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 8 = I/O

SOURCE DETAIL: 3 = local bus adapter SOURCE ID: FF

PROBLEM DETAIL: 0 = no problem detail

CALLER ACTIVITY: 1 = test STATUS: 2

CALLER SUBACTIVITY: 19 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 01

0x2000186083FF1192 000202FF FF04FF83 type 4 = Physical Location

0x5800186083FF1192 0000650A 17042F02 type 11 = Timestamp 11/23/2001 04:47:02

# < GSP log example - 4 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 0 = system firmware

This event logged after the PCI I/O cards installation with A500.

1) Search "2004" from the chassis code table. Hit **CC\_IO\_PCI\_BUS\_MIXED\_SPEEDS** Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "2685". The problem is that customer installed 33 MHz PCI I/O card in the slot 4 and 66MHz card to in the slot 3.

PDC 40.50 did not send an architected chassis code and the 41.17 does for mismatched I/O cards in slots 3 and 4. The 41.17 checks if the I/O cards in slots 3 and 4 have the same speed. If one can run at 66 MHz and the other can only run at 33 Mhz, then 41.17 sends a chassis code, which results in this event. This indicates the system will not run at maximum performance. I.e. the 66 MHz capable I/O card will run at 33 MHz.

This events is described in the KMINE document KBNL00000263.

=====  
Log Entry # 0 :

SYSTEM NAME: uninitialized

DATE: 01/05/1970 TIME: 01:58:19

ALERT LEVEL: 2 = Non-Urgent operator attention required

SOURCE: 8 = I/O

SOURCE DETAIL: 5 = I/O device adapter SOURCE ID: 0

PROBLEM DETAIL: 6 = configuration error

CALLER ACTIVITY: 2 = config STATUS: 4

CALLER SUBACTIVITY: 00 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 00

0x0000002685002004 00000000 00301000 type 0 = Data Field Unused

0x5800082685002004 00004600 05013A13 type 11 = Timestamp 01/05/1970 01:58:19

Type CR for next entry, Q CR to quit.



# < GSP log example - 5 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 0 = system firmware

1) Search “27B0” from the chassis code table. Hit **CC\_BOOT\_SER\_NUM\_WARNING** . Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is “6030”. The indicates the ss\_update command has not been run on the system after a system board replacement.

Here is the example of the ss\_update operation. This is also described in the EPSS.

```
Service Menu: Enter command> SS_UPDATE
Lockword:Z0d8e3c95
Enter Password (Hex) : xxxxxxxx
Enter the System Serial Number USM3924321
This action cannot be undone.
Confirm System Serial Number USM3924321 [Y/N/Q(uit)]? Y
The system has been initialized with Serial Number USM3924321
Original Product Number is: A3639A
To change enter the Original Product Number otherwise press Return
Service Menu: Enter command>
```

Enter the current Lockword into your laptop and it will generate the Hex password.

```
=====
Log Entry # 0 :
SYSTEM NAME: lancifs1
DATE: 05/14/2001 TIME: 16:01:26
ALERT LEVEL: 6 = Boot possible, pending failure - action required
SOURCE: 3 = PDH
SOURCE DETAIL: 0 = unknown, no source stated SOURCE ID: 0
PROBLEM DETAIL: 0 = no problem detail
CALLER ACTIVITY: 2 = config STATUS: 0
CALLER SUBACTIVITY: 7B = implementation dependent
REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 00

0x48000060300027B0 20424144 53534E23 type 9 = ASCII Message SSN# BAD
0x58000860300027B0 00006504 0E10011A type 11 = Timestamp 05/14/2001 16:01:26
```

# < GSP log example - 6 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 0 = system firmware

The system is L2000.

1) Search "6123" from the chassis code table. Two hits. Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "2D74". Hit

CC\_ASTRO\_ERR\_MEM\_ADDR\_PAR\_DIMM. This indicates Memory Address Control Parity error detected by DIMM. This error does not indicate the DIMM hardware problem, and DIMM detected the Address Control bus parity error sent from the memory controller (System board/Astro). So DIMM and system board would be suspect part. Replacing the DIMM is easier troubleshooting than system board replacement. So replace the DIMM and swap other DIMM first, then replace the system board.

Subsequent 16 bytes data points the DIMM location related to this error. In this case, DIMM slot 2A is one of suspect parts. Detail analysis example is described in the KMINE document KBQA00000155.

Here is the actual chassis codes summary on this problem.

```
=====
Log Entry # 0 : 0x1800002076FFAB63 -> CC_MEM_UNEXPECTED_HPMC
Log Entry # 1 : 0x2000002D74006123 -> CC_ASTRO_ERR_MEM_ADDR_PAR_DIMM
                   0000FF00 002AFF74 -> DIMM slot 2A
Log Entry # 2 : 0x6000002070FFAC44 -> CC_MEM_TEST_ASTRO_ERR_STATUS
                   00000000 00800090 -> Bit 23: mem_addr_par_over
                                           Bit 07: mem_addr_par
                                           Bit 04: run_broad_err_stat
Log Entry # 3 : 0x7000007070FFAC34 -> CC_MEM_TEST_HPMC_SUMMARY
Log Entry # 4 : 0x1800002076FFAB63 -> CC_MEM_UNEXPECTED_HPMC
=====
```

```
=====
Log Entry # 1 :
SYSTEM NAME: gsp
DATE: 10/15/2001 TIME: 22:24:03
ALERT LEVEL: 2 = Non-Urgent operator attention required
SOURCE: 7 = memory
SOURCE DETAIL: 4 = SIMM or DIMM SOURCE ID: 0
PROBLEM DETAIL: D = control address parity error
CALLER ACTIVITY: 6 = machine check STATUS: 3
CALLER SUBACTIVITY: 12 = implementation dependent
REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 00
=====
```

```
0x2000002D74006123 0000FF00 002AFF74 type 4 = Physical Location
0x5800082D74006123 00006509 0F161803 type 11 = Timestamp 10/15/2001 22:24:03
Type CR for next entry, - CR for previous entry, Q CR to quit.
```

## < GSP log example - 7 >

Rev. 1.3  
Aug/26/2002

### REPORTING ENTITY TYPE: 0 = system firmware

1) Search "6B83" from the chassis code table. No hits. Check the Problem Detail. It says "double bit error". Source Detail indicates this is SIMM or DIMM problem. The PDC revision was very old and chassis code for the CC\_MEM\_MBE\_IN\_RANK was changed to x2000082374ff0b83. Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "2374".

The problem is the DIMM multi bits data parity error and subsequent 16 bytes data points the physical location of suspect DIMM slot. 000A is Memory Carrier 00 and Slot 0A. Another chassis codes points Memory Carrier 00 Slot 0B.

Before replacing the DIMM pairs, you need to check the PDT(Page Deallocation Table and Memory Error log with the STM/LOGTOOL. You also can check the PDT from the BCH Service menu.

=====

Log Entry # 23 :

SYSTEM NAME: uninitialized

DATE: 10/15/2001 TIME: 13:59:16

ALERT LEVEL: 2 = Non-Urgent operator attention required

SOURCE: 7 = memory

SOURCE DETAIL: 4 = SIMM or DIMM SOURCE ID: FF

PROBLEM DETAIL: 3 = double bit error

CALLER ACTIVITY: 6 = machine check STATUS: 3

CALLER SUBACTIVITY: B8 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 01

0x2000102374FF6B83 0000FF00 000AFF74 type 4 = Physical Location

0x5800182374FF6B83 00006509 0F0D3B10 type 11 = Timestamp 10/15/2001 13:59:16

Type CR for next entry, - CR for previous entry, Q CR to quit.

Log Entry # 22 :

SYSTEM NAME: uninitialized

DATE: 10/15/2001 TIME: 13:59:16

ALERT LEVEL: 2 = Non-Urgent operator attention required

SOURCE: 7 = memory

SOURCE DETAIL: 4 = SIMM or DIMM SOURCE ID: FF

PROBLEM DETAIL: 3 = double bit error

CALLER ACTIVITY: 6 = machine check STATUS: 3

CALLER SUBACTIVITY: B8 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 01

0x2000102374FF6B83 0000FF00 000BFF74 type 4 = Physical Location

0x5800182374FF6B83 00006509 0F0D3B10 type 11 = Timestamp 10/15/2001 13:59:16

# < GSP log example - 8 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 0 = system firmware

1) Search "2284" from the chassis code table. Hit CC\_MEM\_EXT\_LOAD\_ORD\_ERR. Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is "8072". This indicates PDC detected wrong Memory Carrier (Extender) loading order.

2) Check the Memory information from the BCH menu as follows. Memory Carrier slot #1 is empty and this is unrecommended loading order. Move Carrier #2 and 3 to slot 1 and 2.

Information Menu: Enter command > me

### MEMORY INFORMATION

WARNING: Current loading of DIMM carriers failed thermal loading order check. Operation with this loading could lead to unreliable system operation and degraded device lifetimes. Load carriers in order: 0 1 2 3.

### MEMORY STATUS TABLE (MB) (Current Boot Status)

### MEMORY STATUS TABLE (MB) (Current Boot Status)

Carrier->	0 Installed	1 Not installed	2 Installed	3 Installed
Slot 0a	256M Active	-	256M Active	256M Active
Slot 0b	256M Active	-	256M Active	256M Active
Slot 1a	256M Active	-	256M Active	256M Active
Slot 1b	256M Active	-	256M Active	256M Active
Slot 2a	256M Active	-	256M Active	256M Active
Slot 2b	256M Active	-	256M Active	256M Active
Slot 3a	256M Active	-	256M Active	256M Active
Slot 3b	256M Active	-	256M Active	256M Active
Subtotal	2048M	0	2048M	2048M
TOTAL	= 6144 MB			

### Memory Installation Guidelines

- For proper cooling, install carriers in the following order: 0 1 2 3.

Log Entry # 0:

SYSTEM NAME: n4gsp

DATE: 03/27/2001 TIME: 20:57:09

ALERT LEVEL: 8 = Boot Possible, performance impaired

SOURCE: 7 = memory

SOURCE DETAIL: 2 = carrier SOURCE ID: FF

PROBLEM DETAIL: 0 = no problem detail

CALLER ACTIVITY: 2 = config STATUS: 4

CALLER SUBACTIVITY: 28 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 01

0x1800108072FF2284 0000FF00 02FFFF72 type 3 = Actual Data

0x5800188072FF2284 00006502 1B143909 type 11 = Timestamp 03/27/2001 20:57:09

## < GSP log example - 9 >

Rev. 1.3  
Aug/26/2002

### REPORTING ENTITY TYPE: 0 = system firmware

1) Search “1213” from the chassis code table. Hit CPU\_TEST\_FAIL\_D\_CACHE\_RAM. Verify 7th, 8th, 9th and 10th digits, (Alert level/Problem detail/Source/Source detail) if it is “6024”. This indicates PDC detected CPU D-cache parity error.

2) Check SOURCE ID for suspect CPU. SOURCE ID : 2 indicates CPU#2 detected the error.

3) Check the EMS event.log if LPMC monitor logs any CPU cache parity error. The file syslog.log may log the D-cache LPMC.

---

Log Entry # 9 :

SYSTEM NAME: cdcextc2

DATE: 02/13/2002 TIME: 21:07:18

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 2 = processor cache

SOURCE DETAIL: 4 = D cache L0 SOURCE ID: 2

PROBLEM DETAIL: 0 = no problem detail

CALLER ACTIVITY: 1 = test STATUS: 3

CALLER SUBACTIVITY: 21 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 02

0x9800206024021213 00000000 00008001 type 19 = test number

0x5800286024021213 00006601 0D150712 type 11 = Timestamp 02/13/2002 21:07:18

Type CR for next entry, - CR for previous entry, Q CR to quit.

# < GSP log example - 10 >

Rev. 1.3  
Aug/26/2002

**REPORTING ENTITY TYPE: 0 = system firmware , On the fly I/O Chassis Code**

1) Search "6352" from the chassis code table. No hits. Check the 9th digit (  
0x0000082483##6xx2 : CC\_IO\_LBA\_CORR\_TIMEOUT\_ERR

Just received an update and looks like all the systems that has been installed with the new version 'B' ATM card have not had the alerts since. Will close off the hardware call.

\*\*\* 2001-12-07 00:08 CLOSE 5 peng-hoong\_wan@hp.com

System Alerts 2 was finally resolved after all the affected systems were fitted with the rev 'B' cards from Marconi that are FULLY PCI 2.1 compliant.

=====

SYSTEM NAME: uninitialized

DATE: 05/07/2001 TIME: 05:05:53

ALERT LEVEL: 2 = Non-Urgent operator attention required

SOURCE: 8 = I/O

SOURCE DETAIL: 3 = local bus adapter SOURCE ID: FF

PROBLEM DETAIL: 4 = timeout

CALLER ACTIVITY: 6 = machine check STATUS: 2

CALLER SUBACTIVITY: 35 = implementation dependent

REPORTING ENTITY TYPE: 0 = system firmware REPORTING ENTITY ID: 00

0x2000002483FF6352 000101FF FF06FF83 type 4 = Physical Location

0x5800082483FF6352 00006504 07050535 type 11 = Timestamp 05/07/2001

# < GSP log example - 11A >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 1 = **service processor**

- 1) You cannot use the "System Firmware" chassis code table since the Reporting Entity is the **service processor**. Refer the Section "**C - Service Processor**".
- 2) Check Problem Detail. It is "**selftest result**" and just means the Service processor reported the selftest result. This chassis code is logged after the GSP reset and you need to check the Activity Log to get more detail about the GSP reset. Next page "GSP log example -11B" is actual Activity Log copy.
- 3) Activity Log has the chassis code **0xF010011166002030** and subsequent 16 bytes data describes the selftest result. Check last digit and "**4**" means "**Last Reset was due to GSP fatal Failure**". Previous event is the alert level 10 "Boot possible, functionality lost". This indicates GSP failed the communication to the PDH (Processor Dependent Hardware) on the system board. It would be due to the software hang or hardware problem. However, the GSP firmware revision was A.01.09 and this is known issue of the GSP firmware prior to the revision A.01.09. You need to update the GSP firmware to A.01.10 or later.

=====

Log Entry # 2 :

SYSTEM NAME: sgpccm1-1

ALERT LEVEL: 8 = Boot Possible, performance impaired

SOURCE: 6 = platform

SOURCE DETAIL: 6 = service processor SOURCE ID: 0

PROBLEM DETAIL: 1 = **selftest result**

CALLER ACTIVITY: 2 = operation STATUS: 0

CALLER SUBACTIVITY: 03 = console

REPORTING ENTITY TYPE: 1 = service processor REPORTING ENTITY ID: 00

0x7010028166002030 0B0003FF D0100019 type 14 = Problem Detail

0x4810028166002030 5461736B 7265666C type 9 = ASCII Message refITask

0x4810028166002030 78632E43 4C4F4765 type 9 = ASCII Message LOGexc.C

0x7010028166002030 00000000 00002275 type 14 = Problem Detail

0x70100A8166002030 000DA628 226A2004 type 14 = Problem Detail

Type CR for next entry, - CR for previous entry, Q CR to quit.

Log Entry # 3 :

SYSTEM NAME: sgpccm1-1

DATE: 01/01/1970 TIME: 00:00:00

**ALERT LEVEL: 10 = Boot possible, functionality lost**

SOURCE: 3 = PDH

SOURCE DETAIL: 6 = interconnect medium SOURCE ID: 0

PROBLEM DETAIL: 3 = non-responding, may need GSP reset.

CALLER ACTIVITY: 2 = operation STATUS: 0

CALLER SUBACTIVITY: 02 = platform internal interconnect

REPORTING ENTITY TYPE: 1 = service processor REPORTING ENTITY ID: 00

0x581008A336002020 00004600 01000000 type 11 = Timestamp 01/01/1970 00:00:00

Type CR for next entry, - CR for previous entry, Q CR to quit.

# < GSP log example - 11B >

Rev. 1.3  
Aug/26/2002

## The reset type data field definition (Bits 3:0 0x\*\*\*\*\*R)

- 0 : Last Reset was a cold reset. (AC power cycle)
- 1 : Last Reset was a watchdog reset
- 2 : Last Reset was generated from HP-UX driver (stty +resetGSP < /dev/GSPdiag1)
- 3 : Last Reset was requested from GSP handler (XD command)
- 4 : Last Reset was due to GSP fatal Failure. See Source field.
- 5 : Last Reset was due to Firmware reset. (Firmware update)
- 6 : Last Reset was due to Hardware button.
- 7 : Last Reset was due to Unknown cause

---

### Log Entry # 1 :

SYSTEM NAME: sgpccm1-l  
ALERT LEVEL: 8 = Boot Possible, performance impaired  
SOURCE: 6 = platform  
SOURCE DETAIL: 6 = service processor SOURCE ID: 0  
PROBLEM DETAIL: 1 = selftest result  
CALLER ACTIVITY: 2 = operation STATUS: 0  
CALLER SUBACTIVITY: 03 = console  
REPORTING ENTITY TYPE: 1 = service processor REPORTING ENTITY ID: 00

0x7010028166002030 0B0003FF D0100019 type 14 = Problem Detail  
0x4810028166002030 5461736B 7265666C type 9 = ASCII Message reflTask  
0x4810028166002030 78632E43 4C4F4765 type 9 = ASCII Message LOGexc.C  
0x7010028166002030 00000000 00002275 type 14 = Problem Detail  
0x70100A8166002030 000DA628 226A2004 type 14 = Problem Detail  
Type CR for next entry, - CR for previous entry, Q CR to quit.

### Log Entry # 2 :

SYSTEM NAME: sgpccm1-l  
DATE: 01/01/1970 TIME: 00:00:00  
ALERT LEVEL: 1 = Information only, no action required  
SOURCE: 6 = platform  
SOURCE DETAIL: 6 = service processor SOURCE ID: 0  
PROBLEM DETAIL: 1 = selftest result  
CALLER ACTIVITY: 2 = operation STATUS: 0  
CALLER SUBACTIVITY: 03 = console  
REPORTING ENTITY TYPE: 1 = service processor REPORTING ENTITY ID: 00

0xF010011166002030 00000000 00000004 type 30 = reset type and cause  
0x5810091166002030 00004600 01000000 type 11 = Timestamp 01/01/1970 00:00:00  
Type CR for next entry, - CR for previous entry, Q CR to quit.

### Log Entry # 3 :

SYSTEM NAME: sgpccm1-l  
DATE: 01/01/1970 TIME: 00:00:00  
ALERT LEVEL: 10 = Boot possible, functionality lost  
SOURCE: 3 = PDH  
SOURCE DETAIL: 6 = interconnect medium SOURCE ID: 0  
PROBLEM DETAIL: 3 = non-responding, may need GSP reset.  
CALLER ACTIVITY: 2 = operation STATUS: 0  
CALLER SUBACTIVITY: 02 = platform internal interconnect  
REPORTING ENTITY TYPE: 1 = service processor REPORTING ENTITY ID: 00

0x581008A336002020 00004600 01000000 type 11 = Timestamp 01/01/1970 00:00:00  
Type CR for next entry, - CR for previous entry, Q CR to quit.



# < GSP log example - 11C >

Rev. 1.3  
Aug/26/2002

## The reset type data field definition (Data Field Bits 3:0 0x\*\*\*\*\*X)

- 0 : Last Reset was a cold reset. (AC power cycle)
- 1 : Last Reset was a watchdog reset
- 2 : Last Reset was generated from HP-UX driver (stty +resetGSP < /dev/GSPdiag1)
- 3 : Last Reset was requested from GSP handler (XD command)
- 4 : Last Reset was due to GSP fatal Failure. See Source field.
- 5 : Last Reset was due to Firmware reset. (Firmware update)
- 6 : Last Reset was due to Hardware button.
- 7 : Last Reset was due to Unknown cause

You can check the Activity log copy with the cctlogview command. Command string is :

```
# cd /var/stm/logs/os  
# cctlogview ccterrlog | more
```

**Note:** If you want to copy the output to a file, please use the “script” command.

Here is an example of the cctlogview output of the GSP reset. It decodes the data field. In this case, reset type is “cold reset” and Ac power cycle cause the cold reset.

```
304 GSP 0 1 01/17/2002 21:47:46  
Log Entry 304: 01/17/2002 21:47:46  
Alert Level 1: Forward progress, no failure; Keyword:  
Service processor 0 selftest result; Status: 0  
Logged by service processor 0 during operation of console  
Reset type and cause: cold reset  
0xf010021166002030 0x0000000000000000  
0x58100a1166002030 0x0000660011152f2e
```

You also can check the ccterrlog with the STM/LOGTOOL utility as follows.

```
#mstm  
-> Select Tools menu tab  
-> Utility -> Run  
-> Select Utility : logtool (Type space key for select) -> OK  
-> Select Chassis -> View Error Log -> OK  
-> Type “Details” function key for detail log view
```

```
v-v-v-v-v-v-v-v-v-v-v-v-v-v D E T A I L S v-v-v-v-v-v-v-v-v-v-v-v-v-v  
Chassis Code Encoded Field = 0xf010021166002030  
Alert Level = 1 (Service processor alert, no failure detected,  
forward progress logs and timer requests only.)  
Source FRU = 6 (platform entity)  
Source FRU Detail = 6 (service processor)  
Source ID = 0 (platform dependent)  
Event Detail = 1 (selftest result)  
Caller Activity = 2 (operation)  
Caller Subactivity = 3 (console)  
Activity Status = 0 (implementation dependent)  
Reporting Entity Type = 1 (service processor)  
Reporting Entity ID = 0  
Data Type = 30 (reset type and cause)  
Message ID = 2  
Chassis Code Data Field = 0x0000000000000003  
Source = 0 (TBD)  
Reset Type = 3 (last reset was requested from service processor handler)
```

## < GSP log example - 12 >

Rev. 1.3  
Aug/26/2002

### REPORTING ENTITY TYPE: 1 = **service processor**

- 1) You cannot use the "System Firmware" chassis code table since the Reporting Entity is the **service processor**. Refer the Flowchart "C - Service Processor".
- 2) Check Problem Detail. It is "**Unexpected change in GSP NVRAM data or GSP battery failure**". Most of case, this indicates that GSP card was replaced. This card replacement causes the NVRAM data clear since the NVRAM battery is re-inserted.
- 3) If this occurred during normal system operation, most suspect is the GSP card problem or bad battery on the GSP card. Check the battery connection, first. Then replace the GSP card.

Log Entry # 5 :

SYSTEM NAME: uninitialized

DATE: 01/01/1970 TIME: 00:00:00

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 6 = platform

SOURCE DETAIL: 6 = service processor SOURCE ID: 0

**PROBLEM DETAIL: 4 = Unexpected change in GSP NVRAM data or GSP battery failure**

CALLER ACTIVITY: 1 = initialization STATUS: 0

CALLER SUBACTIVITY: 01 = self

REPORTING ENTITY TYPE: 1 = **service processor** REPORTING ENTITY ID: 00

0x5810086466001010 00004600 01000000 type 11 = Timestamp 01/01/1970 00:00:00

# < GSP log example - 13 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 2 = power monitor

See Section D1 – Reporting Entity other (Page 07).

1. Entry #3 indicates Entry #2 indicates the High Voltage Power Supply problem. SOURCE ID indicates the suspect power module#. In this case, power supply module # 2. However PROBLEM DETAIL says “A = **failed or disconnected**”. This message is logged when AC input power cable is disconnected or AC input power source is turned off.
2. Entry #2 indicates same High Voltage Power Supply problem. In this case, SOURCE ID is FF. This is why that the power supply #2 does not provide the DC power to the power bus and the power monitor cannot determine which module caused the output under voltage.

---

### Log Entry # 2 :

SYSTEM NAME: uninitialized  
DATE: 07/08/2001 TIME: 07:46:27  
ALERT LEVEL: 14 = Fatal power or environmental problem prevents operation  
SOURCE: 4 = power  
SOURCE DETAIL: 4 = high voltage DC power SOURCE ID: FF  
PROBLEM DETAIL: 4 = **output undervoltage**  
CALLER ACTIVITY: 4 = monitor STATUS: F  
CALLER SUBACTIVITY: 04 = low voltage power supply  
REPORTING ENTITY TYPE: 2 = **power monitor**  
REPORTING ENTITY ID: 00  
0x002000E444FF404F 00000000 00000000 type 0 = Data Field Unused  
0x582008E444FF404F 00006506 08072E1B type 11 = Timestamp 07/08/2001 07:46:27

### Log Entry # 3 :

SYSTEM NAME: uninitialized  
DATE: 01/01/1970 TIME: 00:07:45  
ALERT LEVEL: 6 = Boot possible, pending failure - action required  
SOURCE: 4 = power  
SOURCE DETAIL: 4 = high voltage DC power SOURCE ID: 2  
PROBLEM DETAIL: A = **failed or disconnected**  
CALLER ACTIVITY: 4 = monitor STATUS: F  
CALLER SUBACTIVITY: 04 = low voltage power supply  
REPORTING ENTITY TYPE: 2 = power monitor  
REPORTING ENTITY ID: 00  
0x0020006A4402404F 00000000 00000000 type 0 = Data Field Unused  
0x5820086A4402404F 00004600 0100072D type 11 = Timestamp 01/01/1970 00:07:45

# < GSP log example - 14 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 2 = power monitor

See Sectio D1 – Reporting Entity other (Page 07).

1. Log Entry #1 indicates the cabinet fan failure and SOURCE ID points the suspect fan # 3.
2. Log Entry #1 indicates same failure and PROBLEM DETAIL says **insufficient # of fans**. In this case

---

Log Entry # 0 :

SYSTEM NAME: uninitialized

DATE: 10/10/2001 TIME: 03:23:39

ALERT LEVEL: 14 = Fatal power or environmental problem prevents operation

SOURCE: 6 = platform

SOURCE DETAIL: 3 = cabinet fan SOURCE ID: FF

PROBLEM DETAIL: 6 = insufficient # of fans

CALLER ACTIVITY: 4 = monitor STATUS: F

CALLER SUBACTIVITY: 05 = fan

REPORTING ENTITY TYPE: 2 = power monitor

REPORTING ENTITY ID: 00

0x002000E663FF405F 00000000 00000000 type 0 = Data Field Unused

0x582008E663FF405F 00006509 0A031727 type 11 = Timestamp 10/10/2001 03:23:39

Type CR for next entry, Q CR to quit.

Log Entry # 1 :

SYSTEM NAME: uninitialized

DATE: 10/10/2001 TIME: 03:23:39

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 6 = platform

SOURCE DETAIL: 3 = cabinet fan SOURCE ID: 3

PROBLEM DETAIL: 4 = fan failure

CALLER ACTIVITY: 4 = monitor STATUS: F

CALLER SUBACTIVITY: 05 = fan

REPORTING ENTITY TYPE: 2 = power monitor

REPORTING ENTITY ID: 00

0x002000646303405F 00000000 00000000 type 0 = Data Field Unused

0x582008646303405F 00006509 0A031727 type 11 = Timestamp 10/10/2001 03:23:39

Type CR for next entry, - CR for previous entry, Q CR to quit.

# < GSP Log Example - 15 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: 7 = customer engineer

The message 'test message' appeared in the "ASCII Message" is recorded by the GSP>CE command as "repair". If you select the "operation Type : Firmware" for CE command, Caller Activity will be 'firmware'.

```
=====
Log Entry # 9 :
SYSTEM NAME: n4gsp
DATE: 02/15/2002 TIME: 08:58:04
ALERT LEVEL: 6 = Boot possible, pending failure - action required
SOURCE: 6 = platform
SOURCE DETAIL: 6 = service processor SOURCE ID: 0
PROBLEM DETAIL: 0 = no problem detail
CALLER ACTIVITY: 0 = repair STATUS: 0
CALLER SUBACTIVITY: 00 = unspecified
REPORTING ENTITY TYPE: 7 = customer engineer REPORTING ENTITY ID: 00
```

```
0x4870026066000000 206D6573 74657374 type 9 = ASCII Message test mes
0x4870026066000000 00000000 73616765 type 9 = ASCII Message sage
0x58700A6066000000 00006601 0F083A04 type 11 = Timestamp 02/15/2002 08:58:04
Type CR for next entry, - CR for previous entry, Q CR to quit.
```

## CE command operation example:

```
GSP> ce
Enter type of operation: repair or firmware update (R/F): r
Enter message to be logged (32 characters max): test message
test message
```

GSP Host Name: n4gsp

GSP>

\*\*\*\*\* SYSTEM ALERT \*\*\*\*\*

```
SYSTEM NAME: n4gsp
DATE: 03/13/2002 TIME: 06:15:58
ALERT LEVEL: 6 = Boot possible, pending failure - action required
```

## REASON FOR ALERT

```
SOURCE: 6 = platform
SOURCE DETAIL: 6 = service processor SOURCE ID: 0
PROBLEM DETAIL: 0 = no problem detail
```

```
LEDs: RUN ATTENTION FAULT REMOTE POWER
      ON FLASH OFF ON ON
```

LED State: There was a system interruption that did not take the system down.  
Check Chassis and Console Logs for error messages.

```
0x4870036066000000 206D6573 74657374 - type 9 = ASCII Message test mes
0x4870036066000000 00000000 73616765 - type 9 = ASCII Message sage
0x58700B6066000000 00006602 0D060F3A - type 11 = Timestamp 03/13/2002 06:15:58
```

A: ack read of this entry - X: Disable all future alert messages  
Anything else skip redisplay the log entry

# < GSP Log Example - 16 >

Rev. 1.3  
Aug/26/2002

## REPORTING ENTITY TYPE: E = HP-UX

- 1) This is the chassis codes sent from HP-UX and it is for the system shutdown and system warning.
- 2) HP-UX legacy chassis code D000 and E000 indicate that HP-UX detected the over temperature signal sent from the PDC and envd executed the system shutdown process.
- 3) The definition of each special chassis codes are as follows. These chassis codes were implemented by installing kernel patch PHKL\_24279(11.0)/ PHKL\_24280(11.11)

0x00E000516100E000 -> OVERTEMP\_CRIT indicates a low level over temperature condition.  
0x00E000616100D000 -> OVERTEMP\_EMERG indicates a mid level over temperature condition requiring system shutdown.

=====  
Log Entry # 1 :

SYSTEM NAME: hpujrcx

DATE: 09/21/2001 TIME: 07:49:54

ALERT LEVEL: 6 = Boot possible, pending failure - action required

SOURCE: 6 = platform

SOURCE DETAIL: 1 = cabinet SOURCE ID: 0

PROBLEM DETAIL: 1 = inlet overtemp

CALLER ACTIVITY: D = system shutdown STATUS: 0

CALLER SUBACTIVITY: 00 = implementation dependent

REPORTING ENTITY TYPE: E = HP-UX REPORTING ENTITY ID: 00

0x00E000616100D000 00000000 00000000 type 0 = Data Field Unused

0x58E008616100D000 00006508 15073136 type 11 = Timestamp 09/21/2001 07:49:54

Type CR for next entry, - CR for previous entry, Q CR to quit.

Log Entry # 2 :

SYSTEM NAME: hpujrcx

DATE: 09/21/2001 TIME: 07:41:51

ALERT LEVEL: 5 = Boot possible, environmental problem exists

SOURCE: 6 = platform

SOURCE DETAIL: 1 = cabinet SOURCE ID: 0

PROBLEM DETAIL: 1 = inlet overtemp

CALLER ACTIVITY: E = system warning STATUS: 0

CALLER SUBACTIVITY: 00 = implementation dependent

REPORTING ENTITY TYPE: E = HP-UX REPORTING ENTITY ID: 00

0x00E000516100E000 00000000 00000000 type 0 = Data Field Unused

0x58E008516100E000 00006508 15072933 type 11 = Timestamp 09/21/2001 07:41:51

Type CR for next entry, - CR for previous entry, Q CR to quit.