DPC621-AV ASRR OEM Command

1. GET PSU INFO

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x04 |

Request Data:

|  |  |
| --- | --- |
| 1 | PSU Number ( 1-4 ) |
| 2 | SubCmd |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Data Length |
| 3:N | Data( Max size 64 byte ) |

Command Number Table

|  |  |
| --- | --- |
| SubCmd | Description |
| 0x79 | Read PSU Status |
| 0x8B | Read PSU VOUT |
| 0x8C | Read PSU IOUT |
| 0x88 | Read PSU VIN |
| 0x89 | Read PSU IIn |
| 0x8D | Read PSU TEMP1 |
| 0x8E | Read PSU TEMP2 |
| 0x90 | Read PSU FAN1 SPEED |
| 0x91 | Read PSU FAN2 SPEED |
| 0x96 | Read PSU POUT |
| 0x97 | Read PSU PIN |

Code Base 12.3 different part

Request Data:

|  |  |
| --- | --- |
| 1 | PSU Number (0 ~ 3)  |
| 2 | SubCmd code |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:N | Return Data( Max size 64 byte ) |

The other part is same as Code Base 11.6.

1. SET ACCESS BMC BY KCS STATUS

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x80 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00 Disable Access BMC BY KCS0x01 Enable Access BMC BY KCS |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. GET ACCESS BMC BY KCS STATUS

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x81 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | 0x00 Disable Access BMC BY KCS0x01 Enable Access BMC BY KCS |

Code Base 12.3 is same as Code Base 11.6.

1. Set Firmware Version

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x86 |

Request Data:

|  |  |
| --- | --- |
| 1 | Selector |
| 2:17 | Data |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Selector Table

|  |  |
| --- | --- |
| 0 | BIOS |
| 1 | BMC |
| 2 | Microcode |
| 3 | Intel ME |
| 4 | AMD\_PSP |
| 5 | AMD\_AGESA |
| 6 | AMD\_SMU |
| 7 | AMD\_SBL |
| 8 | CPLD |
| 9 | PSU1 |
| 10 | PSU2 |
| 11 | NIC1 |
| 12 | NIC2 |

Code Base 12.3 different part

Selector Table

|  |  |
| --- | --- |
| 13 | TPM |

The other part is same as Code Base 11.6.

1. Get Firmware Version

Code Base 11.6

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x87 |

Request Data:

|  |  |
| --- | --- |
| 1 | Selector |

Please refer Ch4 Selector Table.

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:17 | Firmwarm Version |

Code Base 12.3 different part is same as Ch4( Selector Table ). The other part is same as Code Base 11.6.

1. Set MAC Address

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA0 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00 : ETH00x01 : ETH1 0x02 : ETH0 and ETH1 |
| 2:7 | MAC Address |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

Request Data:

|  |  |
| --- | --- |
| 1 | MAC SelectorIf bit 7 = 00x00:MAC10x01:MAC20x02:MAC1 and MAC2If bit 7 = 1bit0:MAC1bit1:MAC2bit2:MAC3bit3:MAC4bit4: USB Host MAC bit5: USB Decive MAC |
| 2:7 | MAC1 Address |
| 8:13 | MAC2 Address(if MAC2 selected) |
| 14:18 | MAC3 address (if MAC3 selected |
| 20:25 | MAC4 address (if MAC4 selected) |
| 26:31 | MAC5 address (if USB Host selected) |
| 32:37 | MAC6 address (if USB Dev selected) |

The other part is same as Code Base 11.6.

1. Get MAC Address

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA1 |

Request Data:

|  |  |
| --- | --- |
| 1 | Get MAC Parameter:0x00: ETH00x01: ETH10x02: ETH0 and ETH1 |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:7 | MAC1 Address |
| 8:13 | MAC2 Address |

Code Base 12.3 different part

Request Data:

|  |  |
| --- | --- |
| 1 | MAC SelectorIf bit 7 = 00x00:MAC10x01:MAC20x02:MAC1 and MAC2If bit 7 = 1bit0:MAC1bit1:MAC2bit2:MAC3bit3:MAC4bit4: USB Host MAC bit5: USB Decive MAC |

Response Data:

|  |  |
| --- | --- |
| 14:19 | MAC3 address (if MAC2 selected) |
| 20:25 | MAC4 address (if MAC3 selected |

1. Set System SMI

Code Base 11.6

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA4 |

Request Data:

|  |  |
| --- | --- |
| 1 | State(S0-S5) |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get System SMI

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA6 |

Request Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | State(S0-S5) |

Code Base 12.3 is same as Code Base 11.6.

1. Get model Name

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA7 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:33 | Model Name |

Code Base 12.3 different part

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:N | Model Name |

The other part is same as Code Base 11.6.

1. Get Firmware Information

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA5 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | BMC Version Major |
| 3 | BMC Version Minor |
| 4 | BIOS Version Phase: 0x01 L, 0x02 P |
| 5 | BIOS Version Major |
| 6 | BIOS Version Minor |
| 7 | BIOS Version Special |
| 8 | ME Version Major High byte |
| 9 | ME Version Major Low byte |
| 10 | ME Version Minor High byte |
| 11 | ME Version Minor Low byte |
| 12 | ME Version Auxiliary 1 Low byte |
| 13 | ME Version Auxiliary 1 High byte |
| 14 | ME Version Auxiliary 2 Low byte |
| 15 | ME Version Auxiliary 2 High byte |
| 16 | Micro Code Version 1 |
| 17 | Micro Code Version 2 |
| 18 | Micro Code Version 3 |
| 19 | Micro Code Version 4 |
| 20 | CPLD Version Major |
| 21 | CPLD Version Minor |

Code Base 12.3 is same as Code Base 11.6.

1. Set Chassis ID

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xAA |

Request Data:

|  |  |
| --- | --- |
| 1:31 | Chassis ID |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get Chassis ID

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xAB |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:32 | Chassis ID |

Code Base 12.3 is same as Code Base 11.6.

1. Set WTD Action ( Only Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xAC |

Request Data:

|  |  |
| --- | --- |
| 1:7 | String: DISABLE ENABLENote: “ENABLE” the final char is 0x00 |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Set Event Action ( Only Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xAD |

Request Data:

|  |  |
| --- | --- |
| Disable | Data 0:6 = “DISABLE”Data 7: 0x00 => Do Nothing 0x01 => Next boot Enable Event Log |
| Enable | Data 0:5 = “ENABLE”Data 6 and 7 = 0x00 |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Set Event Clear( Only Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xAE |

Request Data:

|  |  |
| --- | --- |
| 0:4 | String: “CLEAR” |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Set System MAC Address

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xB0 |

Request Data:

|  |  |
| --- | --- |
| 1 | Set MAC Select |
| 2:7 | MAC Address |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get System MAC Address

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xB1 |

Request Data:

|  |  |
| --- | --- |
| 1 | Get MAC Select |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:7 | MAC Address |

Code Base 12.3 is same as Code Base 11.6.

1. Set BIOS FW Information

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xB2 |

Request Data:

|  |  |
| --- | --- |
| 1 | BIOS Version Phase0x01 :L0x02 :P |
| 2 | BIOS Version Major |
| 3 | BIOS Version Minor |
| 4 | BIOS Version Special |
| 5 | Micro Code Version 1 |
| 6 | Micro Code Version 2 |
| 7 | Micro Code Version 3 |
| 8 | Micro Code Version 4 |
| 9 | ME Version Major Low |
| 10 | ME Version Major High |
| 11 | ME Version Minor Low |
| 12 | ME Version Minor High |
| 13 | ME Version Auxiliary 1 Low |
| 14 | ME Version Auxiliary 1 High |
| 15 | ME Version Auxiliary 2 Low |
| 16 | ME Version Auxiliary 2 High |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get System Management ( This command only in DPC621-AV )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xF5 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00 |
| 2 | 0x00: CPU Usage0x01: Memory Usage( In Code Base 12.3, Code Base 11.6 doesn’t have it. ) |
| 3 | 0x00 (In Code Base 12.3, Code Base 11.6 doesn’t have it. ) |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Usage Value |
| 3 | Usage Threshold |

1. Set System Management ( This command only in DPC621-AV )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xF6 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00 |
| 2 | Device:0x00 : CPU0x01: Memory |
| 3 | Threshold Value |

1. Set BIOS Model Name

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xB5 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00: MB Model Name0x01: System Product Name |
| 2:N | Model Name (ASCII) |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get BIOS Model Name

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xB6 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00: MB Model Name0x01: System Product Name |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:N | Model Name |

Code Base 12.3 is same as Code Base 11.6.

1. Set BIOS POST Status

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xBD |

Request Data:

|  |  |
| --- | --- |
| 1 | BIOS POST status:0x00: Unknown (BIOS not start)0x01: POST start0x02: Enter BIOS setup (POST end) 0x03: Launch shell program 0x04: Boot to OS |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get BIOS POST Status

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xBE |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | BIOS POST status:0x00: Unknown (BIOS not start)0x01: POST start0x02: Enter BIOS setup (POST end) 0x03: Launch shell program 0x04: Boot to OS |

Code Base 12.3 is same as Code Base 11.6.

1. Set Model Name Verify Control

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA8 |

Request Data:

|  |  |
| --- | --- |
| 1 | Enable Verify |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Enable Verify |

Code Base 12.3 different part:

Request Data:

|  |  |
| --- | --- |
| 1 | Verification control data[7:2]: reserved[1]: BIOS verification: 0-disable, 1-enable[0]: BMC verification: 0-disable, 1-enable |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Get Model Name Verify Control

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xA9 |

Response Data: N/A

Request Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Enable Verify Value:0: Disable1: Enable |

Code Base 12.3 different part

Request Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Enable Verify Value:[7:2]: Reserved[1]: BIOS Verification0: Disable1: Enable[0]: BMC Verification0: Disable1: Enable |

1. Set SMI Action

Code Base 11.6

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xB9 |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00 |
| 2 | 0x00: System SMI Shut Down |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

Request Data:

|  |  |
| --- | --- |
| 1 | Command0: Trigger SMI to BIOS1: Set SMI Action flag |
| 2 | SMI Action Flag ( Available only if Action=1 )0: None1: SMI Shutdown2: RTC Sync (Set SEL time)3: CPU SMM mode ( BIOS updating )Others: Reserved |

The other part is same as Code Base 11.6.

1. Get SMI Action

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xBA |

Request Data:

|  |  |
| --- | --- |
| 1 | 0x00: System SMI Shutdown |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | SMI Action Flag0: None1: SMI Shutdown2: RTC Sync (Set SEL time)3: CPU SMM mode (BIOS updating)Others: ReservedNote: SMI Action Flag will be cleared after read |

The other part is same as Code Base 11.6.

1. Set Fan Open Loop Control Table

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan Table Number，Max:8 |
| 2 | Select Table0: Temp Table1: Duty Table |
| 3 | Table Setting Value |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x00 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan table number. (Maximum is 8) |
| 2 | temperature\_1 |
| 3 | duty\_1 |
| 4 | temperature\_2 |
| 5 | duty\_2 |
| 2\*i+1 | temperature\_x |
| 2\*i+2 | duty\_x |
| 49 | temperature\_24 |
| 50 | duty\_24 |

The other part is same as Code Base 11.6.

1. Get Fan Open Loop Control Table

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD1 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan Table Number |
| 2 | Select Table |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:25 | Table Setting |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x01 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan table number. (Maximum is 8) |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Fan Table Number (Maximum is 8) |
| 3 | temperature\_1 |
| 4 | duty\_1 |
| 5 | temperature\_2 |
| 2\*i+1 | temperature\_x |
| 2\*i+2 | duty\_x |
| 49 | temperature\_24 |
| 50 | duty\_24 |

1. Set Fan Close Loop Control Table

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD2 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan Table Number |
| 2 | Temperature Lower |
| 3 | Falling Rate |
| 4 | Falling Time |
| 5 | Temperature Upper |
| 6 | Rising Rate |
| 7 | Rising Time |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x06 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan table number. (Maximum is 10) |
| 2 | RampDownTemp: lower limit of closed loop |
| 3 | RampDownDuty: falling rate (duty) of closed loop |
| 4 | RampDownInterval: delay time (sec) of falling rate of closed loop |
| 5 | RampUpTemp: upper limit of closed loop |
| 6 | RampUpDuty: rising rate (duty) of closed loop |
| 7 | RampUpInterval: delay time (sec) of rising rate of closed loop |
| 8 | ThreshouldTemp: Minimum temperature for this closed loop to take effec |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Get Fan Close Loop Control Table

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD3 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan Table Number |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Temperature Lower |
| 3 | Falling Rate |
| 4 | Falling Time |
| 5 | Temperature Upper |
| 6 | Rising Rate |
| 7 | Rising Time |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x07 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan table number. (Maximum is 10) |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Fan table number. (Maximum is 10) |
| 3 | RampDownTemp: lower limit of closed loop |
| 4 | RampDownDuty: falling rate (duty) of closed loop |
| 5 | RampDownInterval: delay time (sec) of falling rate of closed loop |
| 6 | RampUpTemp: upper limit of closed loop |
| 7 | RampUpDuty: rising rate (duty) of closed loop |
| 8 | RampUpInterval: delay time (sec) of rising rate of closed loop |
| 9 | ThreshouldTemp: Minimum temperature for this closed loop to take effect |

1. Set Temperature Sensor and Corresponding Fan Table Number ( Only Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD4 |

Request Data:

|  |  |
| --- | --- |
| 1 | Temperature Sensor Number |
| 2 | Open Loop Table Number |
| 3 | Close Loop Table Number |
| 4 | Select Fan Zone 1 |
| 5 | Select Fan Zone 2 |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Get Temperature Sensor and Corresponding Fan Table Number ( Only Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD5 |

Request Data:

|  |  |
| --- | --- |
| 1 | Temperature Sensor Number |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Open Loop Table Number |
| 3 | Closed Loop Table Number |
| 4 | Select Fan Zone 1 |
| 5 | Select Fan Zone 2 |

1. Set Fan Duty For Manual Mode

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD6 |

Request Data:

|  |  |
| --- | --- |
| 1:16 | Fan Duty For Manual Mode |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x0E |

Request Data:

|  |  |
| --- | --- |
| 1:16 | Fan1-Fan16 duty (Default min:30 max:100 |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Get Fan Duty For Manual Mode

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD7 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:17 | Fan Duty For Manual Mode |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x0F |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:17 | Fan1-Fan16 duty (Default min:30 max:100) |

1. Set Fan Control Mode

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD8 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan Control Mode |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x11 |

Request Data:

|  |  |
| --- | --- |
| 1:16 | Fan1-Fan16 Mode (0x00:DEFAULT, 0x01:CUSTOMIZED, 0x02:MANUAL) |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Get Fan Control Mode

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD9 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:17 | Fan Control Mode |

Code Base 12.3 different part

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x12 |

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:17 | Fan1-Fan16 Mode (0x00:DEFAULT, 0x01:CUSTOMIZED, 0x02:MANUAL) |

1. Get Current Fan Duty ( Only Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xDA |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:17 | Current Fan Duty |

1. Clean All Fan Setting

Code Base 11.6

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xDC |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 different part:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xD0 |
| SubCommand | 0x15 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Set Fan DEPO Mode ( Only for DPC621-AV )

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xE5 |

Request Data:

|  |  |
| --- | --- |
| 1 | Fan DEPO Mode |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 12.3 is same as Code Base 11.6.

1. Get Fan DEPO Mode

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xE6 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Mode |
| 2 | Fan DEPO Mode |

Code Base 12.3 is same as Code Base 11.6.

1. Set HDD Information ( Only for Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xFF |

Request Data:

|  |  |
| --- | --- |
| 1 | HDD Inventory Number$\leq $0x0F lan$\geq $0x0F Disk |
| 2 | HDD Inventory parameterIf inventory Number $\leq $ 0x0F0x00: Firmware Package Version0x01: RX0x02: TX0x03: NAMEIf inventory Number > 0x0F0x00: Name0x01: Capaity Bytes0x02: Model0x03: Serial Number0x04: FW VersionOthers SMART Info |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Device Present |
| 3:N | Device Data |

1. Restore Default

Code Base 11.6:

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x66 |

Request Data:

|  |  |
| --- | --- |
| 1 | Reset Selector0x01: Reboot BMC0x02: Enable run level 8 |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

Code Base 11.6 is same as Code Base 12.3.

1. Password Config ( Only in Code Base 12.3 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x50 |

Request Data:

|  |  |
| --- | --- |
| 1 | SubCommand |
| 2:N | Parameter |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2:N | Return Data |

SubCommand Request List

|  |  |
| --- | --- |
| SubCommand | Request Data |
| Set Password CONFIG | Byte 1: 0x00, SubCommandByte 2: Retry Count (0~50): Maximum allowed retry count before locked out, 0 means unlimit retryByte 3: Reset Interval (0~160): Interval in seconds to reset attempted failure login count, 0 means not resetByte 4: Lockout Interval (0~160): Interval in seconds to locked out if failure login reached retry count, 0 means no unlockByte 5: Minimum Length (1~20): Minimum password lengthByte 6: Password ComplexityBIT0: Lower case BIT1: Upper case BIT2: Number character BIT3: Sepcial character: !"#$%&'()\*+,-./:;<=>?@[]^\_`~ |
| Get Password CONFIG | Byte 1: 0x01 , SubCommand |
| Set User Password AGE | Byte 1: 0x02, SubCommandByte 2: User ID (Fixed user is not supported ID 1~3)Byte 3: Age: Password expire in daysByte [4:7]: End date: Timestamp format expire time, auto updated if invalid |
| Get User Password AGE | Byte 1: 0x03, SubCommandByte 2: User ID (Fixed user is not supported ID 1~3) |

SubCommand Response List

|  |  |
| --- | --- |
| SubCommand | Response |
| Set Password CONFIG | Byte 1: Completion Code |
| Get Password CONFIG | Byte 1: Completion Code Byte 2: Retry Count (0~50): Maximum allowed retry count before locked out, 0 means unlimit retryByte 3: Reset Interval (0~160): Interval in seconds to reset attempted failure login count, 0 means not resetByte 4: Lockout Interval (0~160): Interval in seconds to locked out if failure login reached retry count, 0 means no unlock Byte 5: Minimum Length (1~20): Minimum password length Byte 6: Password ComplexityBIT0: Lower case BIT1: Upper case BIT2: Number character BIT3: Sepcial character: !"#$%&'()\*+,-./:;<=>?@[]^\_`~ |
| Set User Password AGE | Byte 1: Completion Code |
| Get User Password AGE | Byte 1: Completion Code Byte 2: Age: Password expire in daysByte [3:6]: End date: Timestamp format expire time |

1. Set Chassis Intrusion ( Only in Code Base 12.3 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x88 |

Request Data:

|  |  |
| --- | --- |
| 1 | Chassis intrusion Config00h: Disable 01h: Enable |

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |

1. Get Chassis Intrusion ( Only in Code Base 11.6 )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0x89 |

Request Data: N/A

Response Data:

|  |  |
| --- | --- |
| 1 | Completion Code |
| 2 | Chassis intrusion config 00h: Disable 01h: Enable |

1. Get Inventory Information ( Only in DPC621-AV )

|  |  |
| --- | --- |
| NetFn | 0x3A |
| Command | 0xE4 |

1. Processor Information

|  |  |
| --- | --- |
| SubCommand | 0x00 |
| Processor Number | 0x00 – 0x20 |
| Processor Information | 0x00: ID0x01: Name0x02: Manufacturer0x03: Max Speed MHz0x04: Processor Model0x05: Processor Architecture0x06: Processor Type0x07: Processor Socket0x08: Processor Effective Family0x09: Processor Total Cores0x0A: Processor States |

Ex:

ipmitool -I lanplus –H 192.168.36.242 –U username –P password raw 0x3a 0xE4 0x00 0x00 0x00

Response:

44 65 76 54 79 70 65 31 5f 43 50 55 31 00

* DevType1\_CPU1
1. Storage Information

|  |  |
| --- | --- |
| SubCommand | 0x00 |
| Storage Control Number | 0x00 - 0x20 |
| Storage Number | 0x00 - 0x80 |
| Storage Information | 0x00: Name0x01: Serial Number0x02: Manufacturer0x03: Location0x04: Protocol0x05: Model0x06: Revision0x07: Encryption Status0x08: Media Type0x09: State |

Ex:

ipmitool -I lanplus –H 192.168.36.242 –U username –P password raw 0x3a 0xE4 0x01 0x00 0x00 0x00

Response:

55 53 42 5f 44 65 76 69 63 65 31 5f 50 6f 72 74 35 00

* USB\_Device1\_Port5
1. DIMM Information

|  |  |
| --- | --- |
| SubCommand | 0x02 |
| Memory Number | 0x00 – 0x20 |
| Memory Information | 0x00: ID0x01: Name0x02: Capacity0x03: Manufacturer0x04: Serial Number0x05: Part Number0x06: State0x07: Operating Speed0x08: Type0x09: Description0x0A: Allow Speed0x0B: Device Locator |

Ex:

ipmitool -I lanplus –H 192.168.36.242 –U username –P password raw 0x3a 0xE4 0x02 0x00 0x00

Response:

44 65 76 54 79 70 65 32 5f 44 49 4d 4d 31 35 00

* DevType2\_DIMM15