

HSB1 SERIAL# ******

Test Program Y:\nextest\h3.10.9c\bin\voltagecal.exe

Loading VCAL Data on t_hsb1, t_pe64_1 Calibrated on 06/29/23 10:18:18 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_pe64_2 Calibrated on 06/29/23 10:18:18 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_pe64_3 Calibrated on 06/29/23 10:18:18 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_pe64_4 Calibrated on 06/29/23 10:18:18 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_dps_pmu_1 Calibrated on 06/29/23 10:03:58 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_dps_pmu_2 Calibrated on 06/29/23 10:03:58 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_dps_pmu_3 Calibrated on 06/29/23 10:03:58 with release h4.4.1.2
Loading VCAL Data on t_hsb1, t_dps_pmu_4 Calibrated on 06/29/23 10:03:58 with release h4.4.1.2
The test program is loaded

Reading Configuration File, c:\nextest\config.ini:

TestStarted(1)...

Started: 08/14/23 11:21:57

Test Program Y:\nextest\h3.10.9c\bin\voltagecal.exe

Current Time is: 08/14/23 11:22:04

- Site controller details -

Intel(R) Core(TM)2 Duo CPU T9400 @ 2.53GHz, 2964MB total physical memory.
Microsoft Windows XP
2600.xpsp2.030422-1633

- Revision Codes for Boards -

Site 3 (Chassis 3, Slot 3)

Board Name	Serial Number	PWB Number	PWB Rev	PWA Number	PWA Rev	LVM SDR/DDR	DBM GBits	ECRM GBits	ECRS GBits	RCM MBits	X bits	Y bits	D bits
HSB3	******	511249	2	513326	5	0	(0) 18	(2) 36	(4) 36	(4) 36	(2) 24*	24*	36*
PE64_1	******	509047	2	513325	1								
PE64_2	******	509047	2	513325	1								
PE64_3	******	509047	2	513325	1								
PE64_4	******	509047	2	513325	1								
DP3_1	******	511576	2	511575	12								

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DP3_2          ******   511576  2    511575  12
DP3_3          ******   511576  2    511575  12
DP3_4          ******   511576  2    511575  12
IPC            ******   509681  1    509680  19    Firmware Revision : 5.4.14
```

* NOTE: The ECR X, Y, D bits represent the maximum allowable configuration.

- Pin Electronics IDs -

Chip Num	PE_1 PE ID	PE_2 PE ID	PE_3 PE ID	PE_4 PE ID
U84	5007	5007	5007	5007
U86	5007	5007	5007	5007
U83	5007	5007	5007	5007
U85	5007	5007	5007	5007
U106	5007	5007	5007	5007
U107	5007	5007	5007	5007
U110	5007	5007	5007	5007
U111	5007	5007	5007	5007
U90	5007	5007	5007	5007
U88	5007	5007	5007	5007
U89	5007	5007	5007	5007
U87	5007	5007	5007	5007
U108	5007	5007	5007	5007
U109	5007	5007	5007	5007
U112	5007	5007	5007	5007
U113	5007	5007	5007	5007

- DP Board device IDs

Chip Type	Chip Num	DP_1 ID	DP_2 ID	DP_3 ID	DP_4 ID
HV (Triton)	U65	7	7	7	7
DPS (AD5560)	UDPS1	S4	S4	S4	S4
DPS (AD5560)	UDPS5	S4	S4	S4	S4
DPS (AD5560)	UDPS2	S4	S4	S4	S4
DPS (AD5560)	UDPS6	S4	S4	S4	S4
DPS (AD5560)	UDPS3	S4	S4	S4	S4
DPS (AD5560)	UDPS7	S4	S4	S4	S4
DPS (AD5560)	UDPS4	S4	S4	S4	S4
DPS (AD5560)	UDPS8	S4	S4	S4	S4

- Revision Codes for Memory Modules -

Module Name	Base Number	PWA Number	PWA Rev	LVM MVec	DBM GBits	ECR GBits	RCM MBits
HD2-DBM-DIMM1	509701	510111	1		9		
HD2-DBM-DIMM2	509701	510111	1		9		
HD2-ECRM-DIMM1A	509701	510115	1			9	
HD2-ECRM-DIMM2A	509701	510115	1			9	
HD2-ECRM-DIMM1B	509701	510115	1			9	
HD2-ECRM-DIMM2B	509701	510115	1			9	
HD2-ECRS-DIMM1A	509701	510115	1			9	
HD2-ECRS-DIMM2A	509701	510115	1			9	
HD2-ECRS-DIMM1B	509701	510115	1			9	
HD2-ECRS-DIMM2B	509701	510115	1			9	
HD3-RCMM	509458	511573	1				18
HD3-RCMS	509458	511573	1				18

- Revision Codes for FPGAs -

FPGA Name	SW Rev	HW Rev
HD3 TG1	0x1	0x1d
HD3 TG2	0x1	0x1d
HD3 TG3	0x1	0x1d
HD3 TG4	0x1	0x1d
HD3 TG5	0x1	0x1d
HD3 TG6	0x1	0x1d
HD3 TG7	0x1	0x1d
HD3 TG8	0x1	0x1d
HD3 DP Fpga1	0x1	0x37
HD3 DP Fpga2	0x1	0x37
HD3 DP Fpga3	0x1	0x37
HD3 DP Fpga4	0x1	0x37
HD2 CPUI	0x1	0x17
HD2 DBM	0x1	0x15
HD2 PGM	0x1	0x8c
HD2 PGS	0x1	0x8c
HD2 ECRM	0x1	0x3d
HD2 ECRS	0x1	0x3d

Nextest software release: C:\nextest\h3.10.9C\Bin\Ui.exe

Running on MAGNUM_2X system# ******
HOST computer name: ******
Calibration Time and Environment :-

Module	Chas/Slot/Mod	Cal Date	Cal Time	Host Name	Software Relase	Cal Ver	Hsb Serial	Ipc Temp	Dp Serial	Dp Temp	Pe Serial	Pe Temp
DP_1	0 2 4	06/29/23	10:03:58	NEXTEST847908	h4.4.1.2	121016	1	0.0	177763	55	204481	55
PE_1	0 2 4	06/29/23	10:18:18	NEXTEST847908	h4.4.1.2	10	1	0.0	177763	55	204481	53
DP_2	0 2 4	06/29/23	10:03:58	NEXTEST847908	h4.4.1.2	182698	2	0.0	177763	50	204478	53
PE_2	0 2 4	06/29/23	10:18:18	NEXTEST847908	h4.4.1.2	10	2	0.0	177763	50	204478	52
DP_3	0 2 4	06/29/23	10:03:58	NEXTEST847908	h4.4.1.2	182618	3	0.0	177763	48	204466	54
PE_3	0 2 4	06/29/23	10:18:18	NEXTEST847908	h4.4.1.2	10	3	0.0	177763	48	204466	53
DP_4	0 2 4	06/29/23	10:03:58	NEXTEST847908	h4.4.1.2	182696	4	0.0	177763	47	204517	53
PE_4	0 2 4	06/29/23	10:18:18	NEXTEST847908	h4.4.1.2	10	4	0.0	177763	47	204517	52

N5VBB: -5.246
Loading voltage cal data from non-volatile memory

Calibrate Adc Measure V [calibrate_adc_vmeas_tb]
--- Calibrating ADC Measure V
measure the cal bus leakage [cal_bus_leakage_tb]
--- Measuring the cal bus leakage
Calibrate Pmu Force V [calibrate_pmu_vforce_tb]
--- Calibrating Pmu Force V
Calibrate Pmu Measure I 5ua Common Mode [calibrate_pmu_imeas_5uaCm_tb]
--- Calibrating Pmu Measure I 5ua Common Mode
Calibrate Pmu Measure I 20ua Common Mode [calibrate_pmu_imeas_20uaCm_tb]
--- Calibrating Pmu Measure I 20ua Common Mode
Calibrate Pmu Measure I 200ua Common Mode [calibrate_pmu_imeas_200uaCm_tb]
--- Calibrating Pmu Measure I 200ua Common Mode
Calibrate Pmu Measure I 2ma Common Mode [calibrate_pmu_imeas_2maCm_tb]
--- Calibrating Pmu Measure I 2ma Common Mode
Calibrate Pmu Measure I 20ma Common Mode [calibrate_pmu_imeas_20maCm_tb]
--- Calibrating Pmu Measure I 20ma Common Mode
Calibrate Pmu Measure I 5ua [calibrate_pmu_imeas_5ua_tb]
--- Calibrating Pmu Measure I 5ua
Calibrate Pmu Measure I 20ua [calibrate_pmu_imeas_20ua_tb]
--- Calibrating Pmu Measure I 20ua
Calibrate Pmu Measure I 200ua [calibrate_pmu_imeas_200ua_tb]
--- Calibrating Pmu Measure I 200ua
Calibrate Pmu Measure I 2ma [calibrate_pmu_imeas_2ma_tb]

--- Calibrating Pmu Measure I 2ma
Calibrate Pmu Measure I 20ma [calibrate_pmu_imeas_20ma_tb]
--- Calibrating Pmu Measure I 20ma
Calibrate Pmu Force I 5ua [calibrate_pmu_iforce_5ua_tb]
--- Calibrating Pmu Force I 5ua
Calibrate Pmu Force I 20ua [calibrate_pmu_iforce_20ua_tb]
--- Calibrating Pmu Force I 20ua
Calibrate Pmu Force I 200ua [calibrate_pmu_iforce_200ua_tb]
--- Calibrating Pmu Force I 200ua
Calibrate Pmu Force I 2ma [calibrate_pmu_iforce_2ma_tb]
--- Calibrating Pmu Force I 2ma
Calibrate Pmu Force I 20ma [calibrate_pmu_iforce_20ma_tb]
--- Calibrating Pmu Force I 20ma
Calibrate Pmu V Clamp H [calibrate_pmu_Vclamph_tb]
--- Calibrating Pmu V Clamp High
Calibrate Pmu V Clamp L [calibrate_pmu_Vclampl_tb]
--- Calibrating Pmu V Clamp Low
Calibrate Pmu Vcompare High [calibrate_pmu_VcompH_tb]
--- Calibrating Pmu Vcompare High
Calibrate Pmu Vcompare Low [calibrate_pmu_VcompL_tb]
--- Calibrating Pmu Vcompare Low
Calibrate Pmu Icompare High [calibrate_pmu_IcompH_5ua_tb]
--- Calibrating Pmu Icompare High 5ua
Calibrate Pmu Icompare Low [calibrate_pmu_IcompL_5ua_tb]
--- Calibrating Pmu Icompare Low 5ua
Calibrate Pmu Icompare High [calibrate_pmu_IcompH_20ua_tb]
--- Calibrating Pmu Icompare High 20ua
Calibrate Pmu Icompare Low [calibrate_pmu_IcompL_20ua_tb]
--- Calibrating Pmu Icompare Low 20ua
Calibrate Pmu Icompare High [calibrate_pmu_IcompH_200ua_tb]
--- Calibrating Pmu Icompare High 200ua
Calibrate Pmu Icompare Low [calibrate_pmu_IcompL_200ua_tb]
--- Calibrating Pmu Icompare Low 200ua
Calibrate Pmu Icompare High [calibrate_pmu_IcompH_2ma_tb]
--- Calibrating Pmu Icompare High 2ma
Calibrate Pmu Icompare Low [calibrate_pmu_IcompL_2ma_tb]
--- Calibrating Pmu Icompare Low 2ma
Calibrate Pmu Icompare High [calibrate_pmu_IcompH_20ma_tb]
--- Calibrating Pmu Icompare High 20ma
Calibrate Pmu Icompare Low [calibrate_pmu_IcompL_20ma_tb]
--- Calibrating Pmu Icompare Low 20ma
Calibrate DPS Voltage Force [calibrate_dps_vforce_tb]
--- Calibrating DPS Voltage Force
Calibrate DPS Imeasure 5 uA [calibrate_dps_imeas_5ua_tb]
--- Calibrating DPS Imeasure 5 uA

Calibrate DPS Imeasure 25 uA [calibrate_dps_imeas_25ua_tb]
--- Calibrating DPS Imeasure 25 uA
Calibrate DPS Imeasure 250 uA [calibrate_dps_imeas_250ua_tb]
--- Calibrating DPS Imeasure 250 uA
Calibrate DPS Imeasure 2.5 mA [calibrate_dps_imeas_2500ua_tb]
--- Calibrating DPS Imeasure 2.5 mA
Calibrate DPS Imeasure 25 mA [calibrate_imeas_25ma_tb]
--- Calibrating DPS Imeasure 25 mA
Calibrate DPS Imeasure 200 mA [calibrate_dps_imeas_200ma_tb]
--- Calibrating DPS Imeasure 200 mA
Calibrate DPS Imeasure 600 mA [calibrate_dps_imeas_600ma_tb]
--- Calibrating DPS Imeasure 600 mA
Calibrate 2 DPS Share Imeasure 10 uA [calibrate_2DpsShare_imeas_10ua_tb]
--- Calibrating 2 DPS Share Imeasure 10 uA
Calibrate 2 DPS Share Imeasure 50 uA [calibrate_dps_imeas_50ua_tb]
--- Calibrating 2 DPS Imeasure 50 uA
Calibrate 2 DPS Share Imeasure 500 uA [calibrate_dps_imeas_500ua_tb]
--- Calibrating 2 DPS Share Imeasure 500 uA
Calibrate 2 DPS Share Imeasure 5 mA [calibrate_dps_imeas_5ma_tb]
--- Calibrating 2 DPS Share Imeasure 5 mA
Calibrate 2 DPS Share Imeasure 50 mA [calibrate_2DpsShare_imeas_50ma_tb]
--- Calibrating 2 DPS Share Imeasure 50 mA
Calibrate 2 DPS Share Imeasure 400 mA [calibrate_dps_imeas_400ma_tb]
--- Calibrating 2 DPS Share Imeasure 400 mA
Calibrate 2 DPS Share Imeasure 1.2A [calibrate_2DpsShare_imeas_1200ma_tb]
--- Calibrating 2 DPS Share Imeasure 1.2A
Calibrate 4 DPS Share Imeasure 20 uA [calibrate_4DpsShare_imeas_20ua_tb]
--- Calibrating 4 DPS Share Imeasure 20 uA
Calibrate 4 DPS Share Imeasure 100 uA [calibrate_4DpsShare_imeas_100ua_tb]
--- Calibrating 4 DPS Share Imeasure 100 uA
Calibrate 4 DPS Share Imeasure 1 mA [calibrate_4DpsShare_imeas_1ma_tb]
--- Calibrating 4 DPS Share Imeasure 1 mA
Calibrate 4 DPS Share Imeasure 10 mA [calibrate_4DpsShare_imeas_10m_tb]
--- Calibrating 4 DPS Share Imeasure 10 mA
Calibrate 4 DPS Share Imeasure 100 mA [calibrate_4DpsShare_imeas_100ma_tb]
--- Calibrating 4 DPS Share Imeasure 100 mA
Calibrate 4 DPS Share Imeasure 800 mA [calibrate_4DpsShare_imeas_800ma_tb]
--- Calibrating 4 DPS Share Imeasure 800 mA
Calibrate 4 DPS Share Imeasure 2.4A [calibrate_4DpsShare_imeas_2400ma_tb]
--- Calibrating 4 DPS Share Imeasure 2.4A
Calibrate Dps High Current Clamp [calibrate_dps_high_current_clamps]
--- Calibrating Dps I Clamp 200ma High
--- Calibrating Dps I Clamp 600ma High
--- Calibrating 2 Dps I Clamp 400ma High
--- Calibrating 2 Dps I Clamp 1.2A High

--- Calibrating 4 Dps I Clamp 800ma High
--- Calibrating 4 Dps I Clamp 2.4A High
Calibrate Dps Low Current Clamp [calibrate_dps_low_current_clamps]
--- Calibrating Dps I Clamp 200ma Low
--- Calibrating Dps I Clamp 600ma Low
--- Calibrating 2 Dps I Clamp 400ma Low
--- Calibrating 2 Dps I Clamp 1.2A Low
--- Calibrating 4 Dps I Clamp 800ma Low
--- Calibrating 4 Dps I Clamp 3.2A Low
Calibrate DPS Icompare High [calibrate_dps_IcompH_5ua_tb]
--- Calibrating Dps Icompare High 5ua
Calibrate DPS Icompare Low [calibrate_dps_IcompL_5ua_tb]
--- Calibrating Dps Icompare Low 5ua
Calibrate DPS Icompare High [calibrate_dps_IcompH_25ua_tb]
--- Calibrating Dps Icompare High 25ua
Calibrate DPS Icompare Low [calibrate_dps_IcompL_25ua_tb]
--- Calibrating Dps Icompare Low 25ua
Calibrate DPS Icompare High [calibrate_dps_IcompH_250ua_tb]
--- Calibrating Dps Icompare High 250ua
Calibrate DPS Icompare Low [calibrate_dps_IcompL_250ua_tb]
--- Calibrating Dps Icompare Low 250ua
Calibrate DPS Icompare High [calibrate_dps_IcompH_2500ua_tb]
--- Calibrating Dps Icompare High 2.5ma
Calibrate DPS Icompare Low [calibrate_dps_IcompL_2500ua_tb]
--- Calibrating Dps Icompare Low 2.5ma
Calibrate DPS Icompare High [calibrate_dps_IcompH_25ma_tb]
--- Calibrating Dps Icompare High 25ma
Calibrate DPS Icompare Low [calibrate_dps_IcompL_25ma_tb]
--- Calibrating Dps Icompare Low 25ma
Calibrate DPS Icompare High [calibrate_dps_IcompH_200ma_tb]
--- Calibrating Dps Icompare High 200ma
Calibrate DPS Icompare Low [calibrate_dps_IcompL_200ma_tb]
--- Calibrating Dps Icompare Low 200ma
Calibrate DPS Icompare High [calibrate_dps_IcompH_600ma_tb]
--- Calibrating Dps Icompare High 600ma
Calibrate DPS Icompare Low [calibrate_dps_IcompL_600ma_tb]
--- Calibrating Dps Icompare Low 600ma
Calibrate 2 DPS Share Icompare High 10 uA [calibrate_2DpsShare_IcompH_10ua_tb]
--- Calibrating 2 DPS Share Icompare High 10 uA
Calibrate 2 DPS Share Icompare High 10 uA [calibrate_2DpsShare_IcompL_10ua_tb]
--- Calibrating 2 DPS Share Icompare Low 10 uA
Calibrate 2 DPS Share Icompare High 50 uA [calibrate_2DpsShare_IcompH_50ua_tb]
--- Calibrating 2 DPS Icompare High 50 uA
Calibrate 2 DPS Share Icompare Low 50 uA [calibrate_2DpsShare_IcompL_50ua_tb]
--- Calibrating 2 DPS Icompare Low 50 uA

Calibrate 2 DPS Share Icompare High 500 uA [calibrate_2DpsShare_IcompH_500ua_tb]
--- Calibrating 2 DPS Share Icompare High 500 uA
Calibrate 2 DPS Share Icompare Low 500 uA [calibrate_2DpsShare_IcompL_500ua_tb]
--- Calibrating 2 DPS Share Icompare Low 500 uA
Calibrate 2 DPS Share Icompare High 5 mA [calibrate_2DpsShare_IcompH_5ma_tb]
--- Calibrating 2 DPS Share Icompare High 5 mA
Calibrate 2 DPS Share Icompare Low 5 mA [calibrate_2DpsShare_IcompL_5ma_tb]
--- Calibrating 2 DPS Share Icompare Low 5 mA
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--- Calibrating 2 DPS Share Icompare High 50 mA
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--- Calibrating 2 DPS Share Icompare Low 50 mA
Calibrate 2 DPS Share Icompare High 400 mA [calibrate_2DpsShare_IcompH_400ma_tb]
--- Calibrating 2 DPS Share Icompare High 400 mA
Calibrate 2 DPS Share Icompare Low 400 mA [calibrate_2DpsShare_IcompL_400ma_tb]
--- Calibrating 2 DPS Share Icompare Low 400 mA
Calibrate 2 DPS Share Icompare High 1.2A [calibrate_2DpsShare_IcompH_1200ma_tb]
--- Calibrating 2 DPS Share Icompare High 1.2A
Calibrate 2 DPS Share Icompare Low 1.2A [calibrate_2DpsShare_IcompL_1200ma_tb]
--- Calibrating 2 DPS Share Icompare Low 1.2A
Calibrate 4 DPS Share Icompare High 20 uA [calibrate_4DpsShare_IcompH_20ua_tb]
--- Calibrating 4 DPS Share Icompare High 20 uA
Calibrate 4 DPS Share Icompare Low 20 uA [calibrate_4DpsShare_IcompL_20ua_tb]
--- Calibrating 4 DPS Share Icompare Low 20 uA
Calibrate 4 DPS Share Icompare High 100 uA [calibrate_4DpsShare_IcompH_100ua_tb]
--- Calibrating 4 DPS Share Icompare High 100 uA
Calibrate 4 DPS Share Icompare Low 100 uA [calibrate_4DpsShare_IcompL_100ua_tb]
--- Calibrating 4 DPS Share Icompare Low 100 uA
Calibrate 4 DPS Share Icompare High 1 mA [calibrate_4DpsShare_IcompH_1ma_tb]
--- Calibrating 4 DPS Share Icompare High 1 mA
Calibrate 4 DPS Share Icompare Low 1 mA [calibrate_4DpsShare_IcompL_1ma_tb]
--- Calibrating 4 DPS Share Icompare Low 1 mA
Calibrate 4 DPS Share Icompare High 10 mA [calibrate_4DpsShare_IcompH_10m_tb]
--- Calibrating 4 DPS Share Icompare High 10 mA
Calibrate 4 DPS Share Icompare Low 10 mA [calibrate_4DpsShare_IcompL_10m_tb]
--- Calibrating 4 DPS Share Icompare Low 10 mA
Calibrate 4 DPS Share Icompare High 100 mA [calibrate_4DpsShare_IcompH_100ma_tb]
--- Calibrating 4 DPS Share Icompare High 100 mA
Calibrate 4 DPS Share Icompare Low 100 mA [calibrate_4DpsShare_IcompL_100ma_tb]
--- Calibrating 4 DPS Share Icompare Low 100 mA
Calibrate 4 DPS Share Icompare High 800 mA [calibrate_4DpsShare_IcompH_800ma_tb]
--- Calibrating 4 DPS Share Icompare High 800 mA
Calibrate 4 DPS Share Icompare Low 800 mA [calibrate_4DpsShare_IcompL_800ma_tb]
--- Calibrating 4 DPS Share Icompare Low 800 mA
Calibrate 4 DPS Share Icompare High 2.4A [calibrate_4DpsShare_IcompH_2400ma_tb]

```
--- Calibrating 4 DPS Share Icompare High 2.4A
Calibrate 4 DPS Share Icompare Low 2.4A [calibrate_4DpsShare_IcompL_2400ma_tb]
--- Calibrating 4 DPS Share Icompare Low 2.4A
Calibrate HV Central Dac [calibrate_hv_centralDac_tb
--- Calibrating HV Central Dac
     Calibrating DP1 HvDacBit_d13
     Calibrating DP1 HvDacBit_d14
     Calibrating DP1 HvDacBit_d15
     Calibrating DP2 HvDacBit_d13
     Calibrating DP2 HvDacBit_d14
     Calibrating DP2 HvDacBit_d15
     Calibrating DP3 HvDacBit_d13
     Calibrating DP3 HvDacBit_d14
     Calibrating DP3 HvDacBit_d15
     Calibrating DP4 HvDacBit_d13
     Calibrating DP4 HvDacBit_d14
     Calibrating DP4 HvDacBit_d15
Calibrate HV Force V [calibrate_hv_vforce_tb]
--- Calibrating HV Force V
Calibrate HV Vcompare High [calibrate_hv_VcompH_tb]
--- Calibrating HV Vcomp High
Calibrate HV Vcompare Low [calibrate_hv_VcompL_tb]
--- Calibrating HV Vcomp Low
calibrate hv current source [calibrate_hv_Isource_tb]
--- calibrating hv current source
calibrate hv current sink [calibrate_hv_Isink_tb]
--- calibrating hv current sink
Calibrate HV Imeas [calibrate_hv_imeas_tb]
--- Calibrating HV Imeas
Calibrate HV Imeas 12ma common mode [calibrate_hv_imeas_12maCm_tb]
--- Calibrating HV Imeas 12ma Common Mode
     --- cal segment 6
     --- cal segment 5
     --- cal segment 4
     --- cal segment 3
     --- cal segment 2
     --- cal segment 1
Calibrate HV Icompare High [calibrate_hv_IcompH_12ma_tb]
--- Calibrating HV Icompare High 12ma
Calibrate HV Icompare Low [calibrate_hv_IcompL_12ma_tb]
--- Calibrating HV Icompare Low 12ma
Saving DP Cal Data [save_dp_cal_data_tb]
          Saving The DP Calibration Data
          Saving The Dp Calibration Environment
Calibrate Pe leakage [calibrate_PeLeakage]
```

Calibrate Pe Leakage
Calibrate VIH [calibrate_vih]
--- Calibrating PE1 PE2 PE3 PE4 VIH
Calibrate VIL [calibrate_vil]
--- Calibrating PE1 PE2 PE3 PE4 VIL
Calibrate VTT [calibrate_vtt]
--- Calibrating PE1 PE2 PE3 PE4 VTT
Calibrate VIHH [calibrate_vihh]
--- Calibrating PE1 PE2 PE3 PE4 VIHH
Calibrate VOH Comparator gain and offset [calibrate_voh]
--- Calibrating PE1 PE2 PE3 PE4 VOH Comparator gain and offset
Calibrate VOL Comparator gain and offset [calibrate_vol]
--- Calibrating PE1 PE2 PE3 PE4 VOL Comparator gain and offset
Calibrate IOH gain and offset [calibrate_ioh]
--- Calibrating PE1 PE2 PE3 PE4 IOH gain and offset
Calibrate IOL gain and offset [calibrate_iol]
--- Calibrating PE1 PE2 PE3 PE4 IOL gain and offset
Calibrate VZ [calibrate_vz]
--- Calibrating PE1 PE2 PE3 PE4 VZ
Calibrate Reflect Voltage Clamps [calibrate_Rclamp_H]
--- Calibrating PE1 PE2 PE3 PE4 Reflect Voltage Clamps
Calibrate Reflect Voltage Clamps [calibrate_Rclamp_L]
--- Calibrating PE1 PE2 PE3 PE4 Reflect Voltage Clamps
Calibrate PTU Voltage Clamps [calibrate_ptu_V_Clamp_H]
--- Calibrating PE1 PE2 PE3 PE4 PTU Voltage Clamps
Calibrate PTU Voltage Clamps [calibrate_ptu_V_Clamp_L]
--- Calibrating PE1 PE2 PE3 PE4 PTU Voltage Clamps
Calibrate PTU Force Voltage [calibrate_ptu_fv]
--- Calibrating PE1 PE2 PE3 PE4 PTU Force Voltage
Calibrate PTU Voltage Measure [calibrate_ptu_VMeas]
--- Calibrating PE1 PE2 PE3 PE4 PTU Voltage Measure
Calibrate PTU Voltage Compare [calibrate_ptu_VCompH]
--- Calibrating PE1 PE2 PE3 PE4 PTU Voltage Compare
Calibrate PTU Voltage Compare [calibrate_ptu_VCompL]
--- Calibrating PE1 PE2 PE3 PE4 PTU Voltage Compare
Calibrate PTU Force Current 28ma Range [calibrate_ptu_fi_28ma]
--- Calibrating PE1 PE2 PE3 PE4 PTU Force Current
Calibrate PTU Force Current 2ma Range [calibrate_ptu_fi_2ma]
--- Calibrating PE1 PE2 PE3 PE4 PTU Force Current
Calibrate PTU Force Current 200ua Range [calibrate_ptu_fi_200ua]
--- Calibrating PE1 PE2 PE3 PE4 PTU Force Current
Calibrate PTU Force Current 20ua Range [calibrate_ptu_fi_20ua]
--- Calibrating PE1 PE2 PE3 PE4 PTU Force Current
Calibrate PTU Force Current 2ua Range [calibrate_ptu_fi_2ua]
--- Calibrating PE1 PE2 PE3 PE4 PTU Force Current

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Calibrate PTU Current Measure 28MA Range5 [calibrate_ptu_IMeas_28ma]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Measure 28MA Range5
Calibrate PTU Current Measure 2MA Range4 [calibrate_ptu_Imeas_2ma]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Measure 2MA Range4
Calibrate PTU Current Measure 200UA Range3 [calibrate_ptu_Imeas_200ua]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Measure 200UA Range3
Calibrate PTU Current Measure 20UA Range2 [calibrate_ptu_IMeas_20ua]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Measure 20UA Range2
Calibrate PTU Current Measure 2UA Range1 [calibrate_ptu_IMeas_2ua]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Measure 2UA Range1
Calibrate PTU Current Compare 28ma Range [calibrate_ptu_ICompH]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 28ma Range
Calibrate PTU Current Compare 28ma Range [calibrate_ptu_ICompL]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 28ma Range
Calibrate PTU Current Compare 2ma Range [calibrate_ptu_ICompH]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Compare 2ma Range
Calibrate PTU Current Compare 2ma Range [calibrate_ptu_ICompL]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Compare 2ma Range
Calibrate PTU Current Compare 200ua Range [calibrate_ptu_ICompH]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 200ua Range
Calibrate PTU Current Compare 200ua Range [calibrate_ptu_ICompL]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 200ua Range
Calibrate PTU Current Compare 20ua Range [calibrate_ptu_ICompH]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 20ua Range
Calibrate PTU Current Compare 20ua Range [calibrate_ptu_ICompL]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 20ua Range
Calibrate PTU Current Compare 2ua Range [calibrate_ptu_ICompH]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 2ua Range
Calibrate PTU Current Compare 2ua Range [calibrate_ptu_ICompL]
 --- Calibrating  PE1 PE2 PE3 PE4 PTU Current Compare 2ua Range
SAVE PE Gain and offset data [PE_save]
 Saving gain and offset data for  PE1 PE2 PE3 PE4
         Saving The Pe Calibration Data
         Saving The Pe Calibration Environment
VoltageCal summary [summary_tb]
         Pass number : 1
         Time for this pass : 00:30:08
         Total time : 00:30:26
Final Bin: pass_bin
Done: 08/14/23 11:52:05
TestDone...bin = pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin,pass_bin


The test program is unloaded
```