

SEPT COMPREHENSIVE PERFORMANCE TEST (CPT)

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1 Objectives

The purpose of this document is to describe the SEPT Comprehensive Performance Tests which will be performed during environmental tests. This set of tests will give the possibility to fully assess the correct behavior of the SEPT instrument before and after each environmental test, and also during thermal vacuum test.

The CPT will be carried out by using dedicated scripts run on the SEPT EGSE.

2 Applicable Documents

AD1 SEPT - FPGA Data Sheet – Second Flight Release Document SEPT-001-005 version 1.0 – October 2003, Gaisler Research.

AD2 Particle Detector Front End, datasheet, IMEC, Aug. 1st, 2003.

3 Reference documents

RD1 SEPT Controller User manual, H. Smit, May 2003.

RD2 SEPT Operation Control and Data Processing Requirements, version 3.0, May 2003

RD3 SEPT Control script documentation, version 1.0, I. Mas-Munoz, L. Duvet, January 2004.

RD4 SEPT Level 1 Data format, STEREO-ETKI-003.1, 23rd May 2003.

4 Acronyms and Abbreviations

CPT Comprehensive Performance Test

EGSE Electrical Ground Support Equipment

LUT Look Up Table

PDFE Particle Detector Front End

SEP Solar Energetic Particles suite of instruments

SEPT Solar Electron and Proton Telescope

SSD Solid state detector

TBD To be defined

TBC To be confirmed

TBA To be added

5 Overview

5.1 Introduction

SEPT consists of two identical telescopes (SEPT-E and SEPT-NS) per STEREO spacecraft dedicated to the measurement of electrons (from 20 keV to 400keV) and ions (60 keV to 7 MeV). A telescope comprises a sensor and an electronics unit which analyses the signals of four solid-state detectors (SSD) and four corresponding guard rings. The four detectors are integrated in two oppositely directed telescopes with viewing cones either the ecliptic plane (E) or in north-south direction (NS). Each detector is connected to a PDFE (Particle Detector Front End) ASIC. The solid state detector signals are pulse-height analysed in 256 channels (linear binning) and compressed to 32 channels (quasi-logarithmic binning) for transmission to SEP-Central. Each detector main and guard ring counts can be monitored in sequence by a so-called single counter. Additional 18 housekeeping signals are sampled and transferred to SEP-Central as well as general status bits. A dedicated inflight test generator permits generation of test pulses to verify proper functioning of the onboard electronics. The low-level operation of SEPT electronics is controlled by a specific FPGA. The high level operation of SEPT is controlled by the SEP-Central processor by means of commands sent on the serial interface. The same serial interface is used to transfer all scientific, calibration and housekeeping data from SEPT to SEP-Central.

The block diagram in Figure 1 shows details for one of the two SEPT telescopes.

5.2 Block Diagram

6 CPT description

The CPT consists of a series of test modules commanding each SEPT unit into the following modes:

- Commissioning mode
- Test generator mode
- Nominal observation mode

The different modes are described in detail in RD2. Two units can be tested in parallel with the SEPT EGSE. The current consumption on each power line is logged with 200 ms time resolution by the EGSE.

6.1 Commissioning mode

The purpose of this mode is to extensively test the electronics. The commissioning mode as referred to here is a simplified version of the commissioning mode detailed in RD2.

- Com1: With bias voltage applied
 - o Com1a: Check commands
 - o Com1c: Check RAM Write and Read
 - o Com1d: Check mode consumption: the instrument is placed in different configurations corresponding to different current consumptions.

An example is given in Section 7.2.1.

6.2 Test generator mode

In this mode the inflight test generator produces charge pulses with a frequency of 17.579 kHz that can be routed to the different PDFE inputs (main or guard). Four different charge amplitudes (equally spread over the full range) can be generated. Each telescope has its own test generator circuitry but both circuitries are operated in parallel. This mode can only be used whenever both sides of a telescope are operational.

The module is divided into two parts:

- part Test1: the configuration of the PDFEs and FPGA is similar to the nominal mode (anti-coincidence with pair center segment and own guard and pair guard)
- part Test2: the configuration of the PDFEs and FPGA is similar to the calibration mode (coincidence with pair center segment)

For each part the relevant stimuli patterns are tested and a specific channel is selected for the single counter. The detailed stimuli pattern can be found in RD3. A one second accumulation time is used.

An example is given in Section 7.2.2.

6.3 Nominal mode

This mode consists of a quiet run in nominal observation where four buffers per SEPT unit are read in during an accumulation period of 60 seconds, the PDFE working in full anti-coincidence mode. Housekeeping values are also read at the end of each accumulation period as well as one single counter value. After a series of 8 cycles, all the single counters will have been read.

The accumulation duration is based on the internal timer of the FPGA. Logarithmic binning of the detector signals is not applied, but 256 bins per spectrum will be issued for highest resolution.

7 CPT GSE scripts

7.1 Description

The scripts are written in vbscript and are directly usable with the SEPT EGSE. See RD3.

7.1.1 Commissioning mode script

The commissioning scripts consist of 3 scripts : comm1a, comm1c and comm1d. The total duration of the test is ~ 8 minutes. See RD3 for details.

7.1.2 Test generator mode script

The test generator is run once. The duration of the test is ~ 5 minutes. See RD3 for details.

7.1.3 Nominal mode script

The scripts will be run:

- during 8 minutes with a ^{60}Co source for the aliveness test between each axis during vibration (see Figure 2 for typical result)
- during 8 minutes without source for background measurements
- during TBD minutes without source for cosmic ray muon acquisition at cold and hot soaks during the thermal vacuum test for temperature calibration purposes. To achieve sufficient counting statistics, data must be added for hot soak and cold soak periods separately.

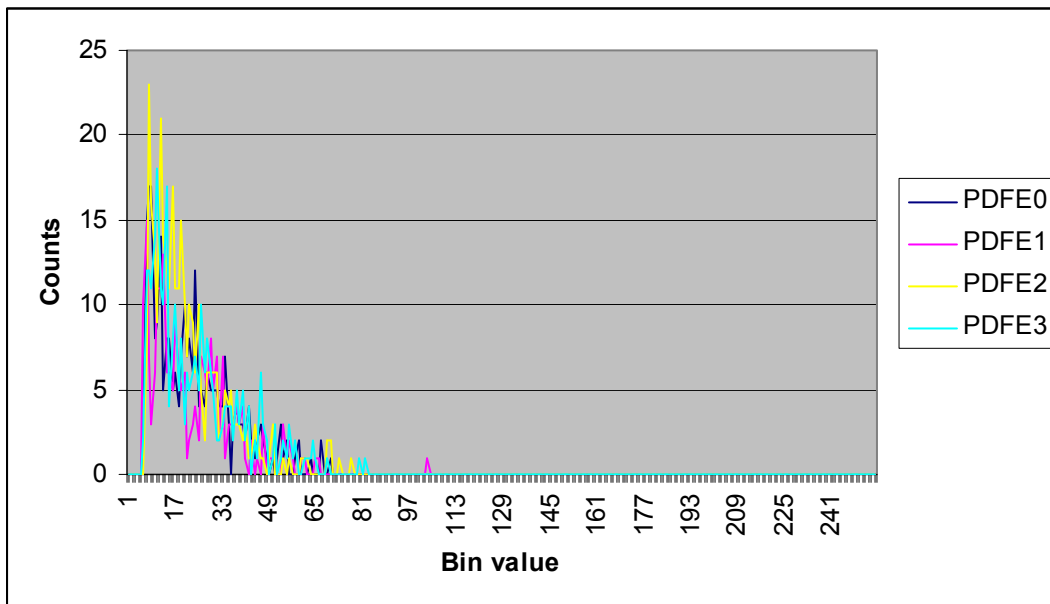


Figure 2: ^{60}Co source spectrum obtained during an 8 minute accumulation period. The source is placed on top of the instrument.

7.2 Output

The different scripts generate log files with the following naming convention:

SEPT_script_name_Unit_identifier_date

where unit_identifier is an 8-bit serial number unique to each unit and contained electronically in each FPGA. The files contain the list of commands issued by the EGSE, and the echo sent by the FPGA is also logged for verification.

7.2.1 Commissioning mode script

7.2.1.1 Comm1 a

File name: ex: SEPT_COMM_1A_10111100_2003.11.11_12.47

Content:

```

SEPT-E spare
Date of Test Comm1a: 11/11/2003 12:47:15

Commissioning Mode 1a: Command Check
*****
Result  Command      Input      Output
-----
fine    RstFPGA           00010001   00010001
-----
fine    RstComm           00010010   00010010
-----
fine    GetId             00010100   10111100 00010100
-----
fine    ClearIrq          01110000   00000000 00000000 01110000
-----
NO Interrupt Register latched.
-----
fine    ConfFilter( 00,dis) 00110000   00110000
-----
fine    ConfFilter( 01,dis) 00110100   00110100
-----
fine    ConfFilter( 10,dis) 00111000   00111000
-----
fine    ConfFilter( 11,dis) 00111100   00111100
-----
fine    ConfFilter(00,ind)  00110001   00110001
-----
fine    ConfFilter(01,ind)  00110101   00110101
-----
fine    ConfFilter(10,ind)  00111001   00111001
-----
fine    ConfFilter(11,ind)  00111101   00111101
-----
fine    ConfFilter(00,Obs)  00110010   00110010
-----
fine    ConfFilter(01,Obs)  00110110   00110110
-----
fine    ConfFilter(10,Obs)  00111010   00111010
-----
fine    ConfFilter(11,Obs)  00111110   00111110
-----
fine    ConfFilter(00,cal)  00110011   00110011
-----
fine    ConfFilter(01,cal)  00110111   00110111
-----
fine    ConfFilter(10,cal)  00111011   00111011
-----
fine    ConfFilter(11,cal)  00111111   00111111
-----
fine    ClearIrq          01110000   00000000 00000000 01110000
-----
NO Interrupt Register latched.
-----
fine    SetTimer           11010000   11010000
-----
fine    ReadTimer          11010100   00000000 00000000 00000000 11010100
-----
fine    ReadDate           11011000   00000000 00000000 00000000 00000000 00000000 11011000
-----
fine    ConfCal            11100000   11100000
-----
fine    ClearIrq          01110000   00000000 00000000 01110000
-----
NO Interrupt Register latched.
-----
fine    ConfLatch          11111111   11111111

```



```

-----
fine          ClearIrq          01110000    00000000 00000000 01110000
-----
NO Interrupt Register latched.
-----

```

7.2.1.2 Comm1 c

Filename: ex: SEPT_COMM_1C_10111100_2003.11.11_12.53
Content:

```

SEPT-E spare
Date of Test Comm1c: 11/11/2003 12:53:23
Commissioning Mode 1c: Check RAM Write and Read.
-----
Result      Command      Input      Output
-----
fine        RstFPGA      00010001   00010001

32 BIN COUNTER.
-----
fine        ConfCntr     10100011   10100011
-----
fine        InitCntr(zeros)pdfe00          10101000   10101000
-----
fine        InitCntr(zeros)pdfe01          10101001   10101001
-----
fine        InitCntr(zeros)pdfe10          10101010   10101010
-----
fine        InitCntr(zeros)pdfe11          10101011   10101011
-----
fine        Readbin(32) of pdfe00          10110000   10110000
fine        counter values 32bin set to zero PDFE00.
-----
fine        Readbin(32) of pdfe01          10110001   10110001
fine        counter values 32bin set to zero PDFE01.
-----
fine        Readbin(32) of pdfe10          10110010   10110010
fine        counter values 32bin set to zero PDFE10.
-----
fine        Readbin(32) of pdfe11          10110011   10110011
fine        counter values 32bin set to zero PDFE11.
-----
fine        InitCntr(cal)pdfe00            10101100   10101100
-----
fine        InitCntr(cal)pdfe01            10101101   10101101
-----
fine        InitCntr(cal)pdfe10            10101110   10101110
-----
fine        InitCntr(cal)pdfe11            10101111   10101111
-----
fine        Readbin(32) of pdfe00          10110000   10110000
fine        counter values 32bin set to Cal PDFE00.
-----
fine        Readbin(32) of pdfe01          10110001   10110001
fine        counter values 32bin set to Cal PDFE01.
-----
fine        Readbin(32) of pdfe10          10110010   10110010
fine        counter values 32bin set to Cal PDFE10.
-----
fine        Readbin(32) of pdfe11          10110011   10110011
fine        counter values 32bin set to Cal PDFE11.
-----

256 BIN COUNTER.
-----
fine        ConfCntr     10100000   10100000
-----
fine        InitCntr(zeros)pdfe00          10101000   10101000
-----
fine        InitCntr(zeros)pdfe01          10101001   10101001
-----
fine        InitCntr(zeros)pdfe10          10101010   10101010
-----
fine        InitCntr(zeros)pdfe11          10101011   10101011
-----
fine        Readbin(256) of pdfe00          10110100   10110100
fine        counter values 256bin set to zero PDFE00.
-----

```

fine	Readbin(256) of pdfc01	10110101	10110101
fine	counter values 256bin set to zero PDFE01.		
fine	Readbin(256) of pdfc10	10110110	10110110
fine	counter values 256bin set to zero PDFE10.		
fine	Readbin(256) of pdfc11	10110111	10110111
fine	counter values 256bin set to zero PDFE11.		
fine	InitCntr(cal)pdfc00	10101100	10101100
fine	InitCntr(cal)pdfc01	10101101	10101101
fine	InitCntr(cal)pdfc10	10101110	10101110
fine	InitCntr(cal)pdfc11	10101111	10101111
fine	Readbin(256) of pdfc00	10110100	10110100
fine	counter values 256bin set to Cal PDFE00.		
fine	Readbin(256) of pdfc01	10110101	10110101
fine	counter values 256bin set to Cal PDFE01.		
fine	Readbin(256) of pdfc10	10110110	10110110
fine	counter values 256bin set to Cal PDFE10.		
fine	Readbin(256) of pdfc11	10110111	10110111
fine	counter values 256bin set to Cal PDFE11.		
fine	GetId	00010100	10111100 00010100

A file containing also the values of each counter in the different cases is also created (ex: SEPT_COMM_1C_BV_10111100_2003.11.11_12.53).

7.2.1.3 comm1d

Filename: ex: SEPT_COMM_1DA_10111100_2003.10.22_17.31

Content: Log of the commands + individual current consumptions at each step

Filename: ex: SEPT_COMM_1DB_10111100_2003.10.22_17.31

Content: Log of the commands + individual current consumptions at each step

Filename: ex: SEPT_COMM_1DC_10111100_2003.10.22_17.31

Content: Log of the commands + individual current consumptions at each step

Filename: ex: SEPT_COMM_1DD_10111100_2003.10.22_17.31

Content: Log of the commands + individual current consumptions at each step

7.2.2 Test generator mode script

7.2.2.1 T1

Filename: SEPT_T1_TEST_10111010_2004_54.dat

Content:

```

Test Mode T1: SEPT Control Data
Instrument Version:          SEPT-E S/C B
ESA/ESTEC
File Created: Fri 10:01:02
Bin Counter 256.
Main event detection level PDFE0-SEPT: 30
Main event detection level PDFE1-SEPT: 30

```

Main event detection level PDFE2-SEPT: 30
 Main event detection level PDFE3-SEPT: 30
 Coincidence event detection level PDFE0-SEPT: 30
 Coincidence event detection level PDFE1-SEPT: 30
 Coincidence event detection level PDFE2-SEPT: 30
 Coincidence event detection level PDFE3-SEPT: 30

....
 Description of the format of the Command Check records:
 Field 1: Timestamp- Day of the year, floating point, with 5 digits to the right of the decimal point.
 Field 2: day of the year (%2i)
 Field 3: hour (%2i) 0 to 24
 Field 4: minute (%2i)
 Field 5: seconds (%2i)
 Field 6: Fine / Not Fine
 Field 7: Command Name

Command Check.

2004.17486534861 54 10 1 2	fine	cRstComm
2004.17486534861 54 10 1 2	fine	cRstFPGA
2004.17486534861 54 10 1 2	fine	cConfLatch
2004.17486534861 54 10 1 2	fine	cClearIrq
2004.17486534861 54 10 1 2	fine	cPwrPDFE
2004.17486534861 54 10 1 2	fine	cDrvPDFE
2004.17486534861 54 10 1 2	fine	cEnPDFE
2004.17486534861 54 10 1 2	fine	cEnPDFE
2004.17486534861 54 10 1 2	fine	cCtrlPDFE
2004.17486534861 54 10 1 2	fine	cClearIrq
2004.17486534861 54 10 1 2	fine	cConfCntr
2004.17486534861 54 10 1 2	fine	cConfPDFE
2004.17486534861 54 10 1 2	fine	cConfFiltr
2004.17486534861 54 10 1 2	fine	clnitCntr
2004.17486538024 54 10 1 3	fine	cConfPDFE
2004.17486538024 54 10 1 3	fine	cConfFiltr
2004.17486538024 54 10 1 3	fine	clnitCntr
2004.17486538024 54 10 1 3	fine	cConfPDFE
2004.17486538024 54 10 1 3	fine	cConfFiltr
2004.17486538024 54 10 1 3	fine	clnitCntr
2004.17486538024 54 10 1 3	fine	cConfPDFE
2004.17486538024 54 10 1 3	fine	cConfFiltr
2004.17486538024 54 10 1 3	fine	clnitCntr
2004.17486538024 54 10 1 3	fine	cSetTimer
2004.17486538024 54 10 1 3	fine	cGetSingle
2004.17486538024 54 10 1 3	fine	cConfCal
2004.17486538024 54 10 1 3	fine	cClearIrq
2004.17486538024 54 10 1 3	fine	cStartRun
2004.17486541186 54 10 1 4	fine	cClearIrq
2004.17486544348 54 10 1 5	fine	cRead256
2004.17486547511 54 10 1 6	fine	cRead256
2004.17486547511 54 10 1 6	fine	cRead256
2004.17486550673 54 10 1 7	fine	cRead256
2004.17486550673 54 10 1 7	fine	cConfPDFE
2004.17486550673 54 10 1 7	fine	cGetHK
2004.17486550673 54 10 1 7	fine	cConfPDFE
2004.17486550673 54 10 1 7	fine	cConfPDFE
2004.17486550673 54 10 1 7	fine	cGetHK
2004.17486553835 54 10 1 8	fine	cConfPDFE
2004.17486553835 54 10 1 8	fine	cConfPDFE
2004.17486553835 54 10 1 8	fine	cGetHK
2004.17486553835 54 10 1 8	fine	cConfPDFE
2004.17486553835 54 10 1 8	fine	cConfPDFE
2004.17486553835 54 10 1 8	fine	cGetHK
2004.17486553835 54 10 1 8	fine	cConfPDFE
2004.17486553835 54 10 1 8	fine	cGetSingle
2004.17486553835 54 10 1 8	fine	cConfCal
2004.17486553835 54 10 1 8	fine	cClearIrq
2004.17486553835 54 10 1 8	fine	cStartRun
2004.17486556998 54 10 1 9	fine	cClearIrq
2004.1748656016 54 10 1 10	fine	cRead256
2004.17486563322 54 10 1 11	fine	cRead256
2004.17486563322 54 10 1 11	fine	cRead256
2004.17486566485 54 10 1 12	fine	cRead256
2004.17486566485 54 10 1 12	fine	cConfPDFE
2004.17486566485 54 10 1 12	fine	cGetHK
2004.17486566485 54 10 1 12	fine	cConfPDFE
2004.17486566485 54 10 1 12	fine	cConfPDFE
2004.17486566485 54 10 1 12	fine	cGetHK
2004.17486566485 54 10 1 12	fine	cConfPDFE
2004.17486566485 54 10 1 12	fine	cConfPDFE
2004.17486569647 54 10 1 13	fine	cGetHK
2004.17486569647 54 10 1 13	fine	cConfPDFE
2004.17486569647 54 10 1 13	fine	cConfPDFE
2004.17486569647 54 10 1 13	fine	cGetHK
2004.17486569647 54 10 1 13	fine	cConfPDFE
2004.17486569647 54 10 1 13	fine	cConfPDFE
2004.17486569647 54 10 1 13	fine	cGetSingle
2004.17486569647 54 10 1 13	fine	cConfCal
2004.17486569647 54 10 1 13	fine	cClearIrq
2004.17486569647 54 10 1 13	fine	cStartRun
2004.17486572809 54 10 1 14	fine	cClearIrq
2004.17486575971 54 10 1 15	fine	cRead256
2004.17486579134 54 10 1 16	fine	cRead256
2004.17486579134 54 10 1 16	fine	cRead256

2004.17486582296 54 10 1 17	fine	cRead256
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cGetHK
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cGetHK
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cGetHK
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cGetHK
2004.17486582296 54 10 1 17	fine	cConfPDFE
2004.17486582296 54 10 1 17	fine	cGetHK
2004.17486585458 54 10 1 18	fine	cGetSingle
2004.17486585458 54 10 1 18	fine	cConfCal
2004.17486585458 54 10 1 18	fine	cClearIrq
2004.17486585458 54 10 1 18	fine	cStartRun
2004.17486588621 54 10 1 19	fine	cClearIrq
2004.17486591783 54 10 1 20	fine	cRead256
2004.17486591783 54 10 1 20	fine	cRead256
2004.17486594945 54 10 1 21	fine	cRead256
2004.17486598108 54 10 1 22	fine	cRead256
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cGetHK
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cGetHK
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cGetHK
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cConfPDFE
2004.17486598108 54 10 1 22	fine	cGetSingle
2004.1748660127 54 10 1 23	fine	cConfCal
2004.1748660127 54 10 1 23	fine	cClearIrq
2004.1748660127 54 10 1 23	fine	cStartRun
2004.17486604432 54 10 1 24	fine	cClearIrq
2004.17486607595 54 10 1 25	fine	cRead256
2004.17486610757 54 10 1 26	fine	cRead256
2004.17486610757 54 10 1 26	fine	cRead256
2004.17486613919 54 10 1 27	fine	cRead256
2004.17486613919 54 10 1 27	fine	cConfPDFE
2004.17486613919 54 10 1 27	fine	cGetHK
2004.17486613919 54 10 1 27	fine	cConfPDFE
2004.17486613919 54 10 1 27	fine	cConfPDFE
2004.17486613919 54 10 1 27	fine	cGetHK
2004.17486613919 54 10 1 27	fine	cConfPDFE
2004.17486613919 54 10 1 27	fine	cConfPDFE
2004.17486617082 54 10 1 28	fine	cGetHK
2004.17486617082 54 10 1 28	fine	cConfPDFE
2004.17486617082 54 10 1 28	fine	cConfPDFE
2004.17486617082 54 10 1 28	fine	cGetHK
2004.17486617082 54 10 1 28	fine	cConfPDFE
2004.17486617082 54 10 1 28	fine	cGetSingle
2004.17486617082 54 10 1 28	fine	cConfCal
2004.17486617082 54 10 1 28	fine	cClearIrq
2004.17486617082 54 10 1 28	fine	cStartRun
2004.17486620244 54 10 1 29	fine	cClearIrq
2004.17486623406 54 10 1 30	fine	cRead256
2004.17486626569 54 10 1 31	fine	cRead256
2004.17486626569 54 10 1 31	fine	cRead256
2004.17486629731 54 10 1 32	fine	cRead256
2004.17486629731 54 10 1 32	fine	cConfPDFE
2004.17486629731 54 10 1 32	fine	cGetHK
2004.17486629731 54 10 1 32	fine	cConfPDFE
2004.17486629731 54 10 1 32	fine	cConfPDFE
2004.17486629731 54 10 1 32	fine	cGetHK
2004.17486629731 54 10 1 32	fine	cConfPDFE
2004.17486629731 54 10 1 32	fine	cConfPDFE
2004.17486629731 54 10 1 32	fine	cGetHK
2004.17486629731 54 10 1 32	fine	cConfPDFE
2004.17486629731 54 10 1 32	fine	cGetSingle
2004.17486632893 54 10 1 33	fine	cConfCal
2004.17486632893 54 10 1 33	fine	cClearIrq
2004.17486632893 54 10 1 33	fine	cStartRun
2004.17486636055 54 10 1 34	fine	cClearIrq
2004.17486639218 54 10 1 35	fine	cRead256
2004.17486639218 54 10 1 35	fine	cRead256
2004.1748664238 54 10 1 36	fine	cRead256
2004.17486645542 54 10 1 37	fine	cRead256
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cGetHK
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cGetHK
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cGetHK

2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cGetHK
2004.17486645542 54 10 1 37	fine	cConfPDFE
2004.17486645542 54 10 1 37	fine	cGetSingle
2004.17486645542 54 10 1 37	fine	cConfCal
2004.17486645542 54 10 1 37	fine	cClearlrq
2004.17486645542 54 10 1 37	fine	cStartRun
2004.17486651867 54 10 1 39	fine	cClearlrq
2004.17486651867 54 10 1 39	fine	cRead256
2004.17486655029 54 10 1 40	fine	cRead256
2004.17486658192 54 10 1 41	fine	cRead256
2004.17486661354 54 10 1 42	fine	cRead256
2004.17486661354 54 10 1 42	fine	cConfPDFE
2004.17486661354 54 10 1 42	fine	cGetHK
2004.17486661354 54 10 1 42	fine	cConfPDFE
2004.17486661354 54 10 1 42	fine	cConfPDFE
2004.17486661354 54 10 1 42	fine	cGetHK
2004.17486661354 54 10 1 42	fine	cConfPDFE
2004.17486661354 54 10 1 42	fine	cConfPDFE
2004.17486661354 54 10 1 42	fine	cGetHK
2004.17486661354 54 10 1 42	fine	cConfPDFE
2004.17486661354 54 10 1 42	fine	cGetSingle
2004.17486664516 54 10 1 43	fine	cConfCal
2004.17486664516 54 10 1 43	fine	cClearlrq
2004.17486664516 54 10 1 43	fine	cStartRun
2004.17486667679 54 10 1 44	fine	cClearlrq
2004.17486670841 54 10 1 45	fine	cRead256
2004.17486674003 54 10 1 46	fine	cRead256
2004.17486674003 54 10 1 46	fine	cRead256
2004.17486677166 54 10 1 47	fine	cRead256
2004.17486677166 54 10 1 47	fine	cConfPDFE
2004.17486677166 54 10 1 47	fine	cGetHK
2004.17486677166 54 10 1 47	fine	cConfPDFE
2004.17486677166 54 10 1 47	fine	cConfPDFE
2004.17486677166 54 10 1 47	fine	cGetHK
2004.17486680328 54 10 1 48	fine	cConfPDFE
2004.17486680328 54 10 1 48	fine	cConfPDFE
2004.17486680328 54 10 1 48	fine	cGetHK
2004.17486680328 54 10 1 48	fine	cConfPDFE
2004.17486680328 54 10 1 48	fine	cConfPDFE
2004.17486680328 54 10 1 48	fine	cGetHK
2004.17486680328 54 10 1 48	fine	cConfPDFE
2004.17486680328 54 10 1 48	fine	cGetSingle
2004.17486680328 54 10 1 48	fine	cConfCal
2004.17486680328 54 10 1 48	fine	cClearlrq
2004.17486680328 54 10 1 48	fine	cStartRun
2004.1748668349 54 10 1 49	fine	cClearlrq
2004.17486686653 54 10 1 50	fine	cRead256
2004.17486686653 54 10 1 50	fine	cRead256
2004.17486689815 54 10 1 51	fine	cRead256
2004.17486692977 54 10 1 52	fine	cRead256
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cGetHK
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cGetHK
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cGetHK
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cConfPDFE
2004.17486692977 54 10 1 52	fine	cGetSingle
2004.17486692977 54 10 1 52	fine	cConfCal
2004.17486692977 54 10 1 52	fine	cClearlrq
2004.17486692977 54 10 1 52	fine	cStartRun
2004.17486699302 54 10 1 54	fine	cClearlrq
2004.17486699302 54 10 1 54	fine	cRead256
2004.17486702464 54 10 1 55	fine	cRead256
2004.17486705626 54 10 1 56	fine	cRead256
2004.17486705626 54 10 1 56	fine	cRead256
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cGetHK
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cGetHK
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cGetHK
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cConfPDFE
2004.17486708789 54 10 1 57	fine	cGetSingle
2004.17486708789 54 10 1 57	fine	cConfCal
2004.17486708789 54 10 1 57	fine	cClearlrq
2004.17486708789 54 10 1 57	fine	cStartRun
2004.17486715113 54 10 1 59	fine	cClearlrq

2004.17486715113 54 10 1 59	fine	cRead256
2004.17486718276 54 10 2 0	fine	cRead256
2004.17486718276 54 10 2 0	fine	cRead256
2004.17486721438 54 10 2 1	fine	cRead256
2004.17486721438 54 10 2 1	fine	cConfPDFE
2004.17486721438 54 10 2 1	fine	cGetHK
2004.17486721438 54 10 2 1	fine	cConfPDFE
2004.17486721438 54 10 2 1	fine	cConfPDFE
2004.17486721438 54 10 2 1	fine	cGetHK
2004.17486721438 54 10 2 1	fine	cConfPDFE
2004.17486721438 54 10 2 1	fine	cConfPDFE
2004.17486721438 54 10 2 1	fine	cGetHK
2004.17486721438 54 10 2 1	fine	cConfPDFE
2004.174867246 54 10 2 2	fine	cConfPDFE
2004.174867246 54 10 2 2	fine	cGetHK
2004.174867246 54 10 2 2	fine	cConfPDFE
2004.174867246 54 10 2 2	fine	cGetSingle
2004.174867246 54 10 2 2	fine	cConfCal
2004.174867246 54 10 2 2	fine	cClearIrq
2004.174867246 54 10 2 2	fine	cStartRun
2004.17486730925 54 10 2 4	fine	cClearIrq
2004.17486730925 54 10 2 4	fine	cRead256
2004.17486734087 54 10 2 5	fine	cRead256
2004.1748673725 54 10 2 6	fine	cRead256
2004.1748673725 54 10 2 6	fine	cRead256
2004.17486740412 54 10 2 7	fine	cConfPDFE
2004.17486740412 54 10 2 7	fine	cGetHK
2004.17486740412 54 10 2 7	fine	cConfPDFE
2004.17486740412 54 10 2 7	fine	cConfPDFE
2004.17486740412 54 10 2 7	fine	cGetHK
2004.17486740412 54 10 2 7	fine	cConfPDFE
2004.17486740412 54 10 2 7	fine	cConfPDFE
2004.17486740412 54 10 2 7	fine	cGetHK
2004.17486740412 54 10 2 7	fine	cConfPDFE
2004.17486740412 54 10 2 7	fine	cConfCal
2004.17486740412 54 10 2 7	fine	cClearIrq
2004.17486740412 54 10 2 7	fine	cStartRun
2004.17486743574 54 10 2 8	fine	cClearIrq
2004.17486746736 54 10 2 9	fine	cRead256
2004.17486749899 54 10 2 10	fine	cRead256
2004.17486749899 54 10 2 10	fine	cRead256
2004.17486753061 54 10 2 11	fine	cRead256
2004.17486753061 54 10 2 11	fine	cConfPDFE
2004.17486753061 54 10 2 11	fine	cGetHK
2004.17486753061 54 10 2 11	fine	cConfPDFE
2004.17486753061 54 10 2 11	fine	cConfPDFE
2004.17486753061 54 10 2 11	fine	cGetHK
2004.17486753061 54 10 2 11	fine	cConfPDFE
2004.17486753061 54 10 2 11	fine	cConfPDFE
2004.17486753061 54 10 2 11	fine	cGetHK
2004.17486753061 54 10 2 11	fine	cConfPDFE
2004.17486756223 54 10 2 12	fine	cGetSingle
2004.17486756223 54 10 2 12	fine	cConfCal
2004.17486756223 54 10 2 12	fine	cClearIrq
2004.17486756223 54 10 2 12	fine	cStartRun
2004.17486759386 54 10 2 13	fine	cClearIrq
2004.17486762548 54 10 2 14	fine	cRead256
2004.17486762548 54 10 2 14	fine	cRead256
2004.1748676571 54 10 2 15	fine	cRead256
2004.17486768873 54 10 2 16	fine	cRead256
2004.17486768873 54 10 2 16	fine	cConfPDFE
2004.17486768873 54 10 2 16	fine	cGetHK
2004.17486768873 54 10 2 16	fine	cConfPDFE
2004.17486768873 54 10 2 16	fine	cConfPDFE
2004.17486768873 54 10 2 16	fine	cGetHK
2004.17486768873 54 10 2 16	fine	cConfPDFE
2004.17486768873 54 10 2 16	fine	cConfPDFE
2004.17486768873 54 10 2 16	fine	cGetHK
2004.17486768873 54 10 2 16	fine	cConfPDFE
2004.17486768873 54 10 2 16	fine	cGetSingle
2004.17486768873 54 10 2 16	fine	cConfCal
2004.17486768873 54 10 2 16	fine	cClearIrq
2004.17486768873 54 10 2 16	fine	cStartRun
2004.17486775197 54 10 2 18	fine	cClearIrq
2004.17486775197 54 10 2 18	fine	cRead256
2004.1748677836 54 10 2 19	fine	cRead256
2004.17486781522 54 10 2 20	fine	cRead256
2004.17486781522 54 10 2 20	fine	cRead256
2004.17486781522 54 10 2 20	fine	cConfPDFE
2004.17486784684 54 10 2 21	fine	cGetHK
2004.17486784684 54 10 2 21	fine	cConfPDFE
2004.17486784684 54 10 2 21	fine	cConfPDFE
2004.17486784684 54 10 2 21	fine	cGetHK

2004.17486847931 54 10 2 41	fine	cClearIrq
2004.17486847931 54 10 2 41	fine	cStartRun
2004.17486851093 54 10 2 42	fine	cClearIrq
2004.17486854255 54 10 2 43	fine	cRead256
2004.17486857418 54 10 2 44	fine	cRead256
2004.17486857418 54 10 2 44	fine	cRead256
2004.1748686058 54 10 2 45	fine	cRead256
2004.1748686058 54 10 2 45	fine	cConfPDFE
2004.1748686058 54 10 2 45	fine	cGetHK
2004.1748686058 54 10 2 45	fine	cConfPDFE
2004.1748686058 54 10 2 45	fine	cConfPDFE
2004.1748686058 54 10 2 45	fine	cGetHK
2004.1748686058 54 10 2 45	fine	cConfPDFE
2004.1748686058 54 10 2 45	fine	cConfPDFE
2004.1748686058 54 10 2 45	fine	cGetHK
2004.17486863742 54 10 2 46	fine	cConfPDFE
2004.17486863742 54 10 2 46	fine	cConfPDFE
2004.17486863742 54 10 2 46	fine	cGetHK
2004.17486863742 54 10 2 46	fine	cConfPDFE
2004.17486863742 54 10 2 46	fine	cGetSingle
2004.17486863742 54 10 2 46	fine	cConfCal
2004.17486863742 54 10 2 46	fine	cClearIrq
2004.17486863742 54 10 2 46	fine	cStartRun
2004.17486866904 54 10 2 47	fine	cClearIrq
2004.17486870067 54 10 2 48	fine	cRead256
2004.17486870067 54 10 2 48	fine	cRead256
2004.17486873229 54 10 2 49	fine	cRead256
2004.17486876391 54 10 2 50	fine	cRead256
2004.17486876391 54 10 2 50	fine	cConfPDFE
2004.17486876391 54 10 2 50	fine	cGetHK
2004.17486876391 54 10 2 50	fine	cConfPDFE
2004.17486876391 54 10 2 50	fine	cConfPDFE
2004.17486876391 54 10 2 50	fine	cGetHK
2004.17486876391 54 10 2 50	fine	cConfPDFE
2004.17486876391 54 10 2 50	fine	cConfPDFE
2004.17486876391 54 10 2 50	fine	cGetHK
2004.17486876391 54 10 2 50	fine	cConfPDFE
2004.17486876391 54 10 2 50	fine	cGetSingle
2004.17486876391 54 10 2 50	fine	cConfCal
2004.17486876391 54 10 2 50	fine	cClearIrq
2004.17486876391 54 10 2 50	fine	cStartRun
2004.17486882716 54 10 2 52	fine	cClearIrq
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2004.17486885878 54 10 2 53	fine	cRead256
2004.17486889041 54 10 2 54	fine	cRead256
2004.17486892203 54 10 2 55	fine	cRead256
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cGetHK
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cGetHK
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cGetHK
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cConfPDFE
2004.17486892203 54 10 2 55	fine	cGetSingle
2004.17486892203 54 10 2 55	fine	cConfCal
2004.17486892203 54 10 2 55	fine	cClearIrq
2004.17486892203 54 10 2 55	fine	cStartRun
2004.17486898528 54 10 2 57	fine	cClearIrq
2004.17486898528 54 10 2 57	fine	cRead256
2004.1748690169 54 10 2 58	fine	cRead256
2004.17486904852 54 10 2 59	fine	cRead256
2004.17486904852 54 10 2 59	fine	cRead256
2004.17486904852 54 10 2 59	fine	cConfPDFE
2004.17486904852 54 10 2 59	fine	cGetHK
2004.17486904852 54 10 2 59	fine	cConfPDFE
2004.17486904852 54 10 2 59	fine	cConfPDFE
2004.17486908015 54 10 3 0	fine	cGetHK
2004.17486908015 54 10 3 0	fine	cConfPDFE
2004.17486908015 54 10 3 0	fine	cConfPDFE
2004.17486908015 54 10 3 0	fine	cGetHK
2004.17486908015 54 10 3 0	fine	cConfPDFE
2004.17486908015 54 10 3 0	fine	cConfPDFE
2004.17486908015 54 10 3 0	fine	cGetHK
2004.17486908015 54 10 3 0	fine	cConfPDFE
2004.17486908015 54 10 3 0	fine	cGetSingle
2004.17486908015 54 10 3 0	fine	cConfCal
2004.17486908015 54 10 3 0	fine	cClearIrq
2004.17486908015 54 10 3 0	fine	cStartRun
2004.17486914339 54 10 3 2	fine	cClearIrq
2004.17486917502 54 10 3 3	fine	cRead256
2004.17486917502 54 10 3 3	fine	cRead256
2004.17486920664 54 10 3 4	fine	cRead256
2004.17486923826 54 10 3 5	fine	cRead256
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cGetHK

2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cGetHK
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cGetHK
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cGetHK
2004.17486923826 54 10 3 5	fine	cConfPDFE
2004.17486923826 54 10 3 5	fine	cGetSingle
2004.17486923826 54 10 3 5	fine	cConfCal
2004.17486923826 54 10 3 5	fine	cClearIrq
2004.17486923826 54 10 3 5	fine	cStartRun
2004.17486930151 54 10 3 7	fine	cClearIrq
2004.17486930151 54 10 3 7	fine	cRead256
2004.17486933313 54 10 3 8	fine	cRead256
2004.17486936475 54 10 3 9	fine	cRead256
2004.17486936475 54 10 3 9	fine	cRead256
2004.17486936475 54 10 3 9	fine	cConfPDFE
2004.17486936475 54 10 3 9	fine	cGetHK
2004.17486936475 54 10 3 9	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cGetHK
2004.17486939638 54 10 3 10	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cGetHK
2004.17486939638 54 10 3 10	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cGetHK
2004.17486939638 54 10 3 10	fine	cConfPDFE
2004.17486939638 54 10 3 10	fine	cGetSingle
2004.17486939638 54 10 3 10	fine	cConfCal
2004.17486939638 54 10 3 10	fine	cClearIrq
2004.17486939638 54 10 3 10	fine	cStartRun
2004.174869428 54 10 3 11	fine	cClearIrq
2004.17486945962 54 10 3 12	fine	cRead256
2004.17486949125 54 10 3 13	fine	cRead256
2004.17486949125 54 10 3 13	fine	cRead256
2004.17486952287 54 10 3 14	fine	cRead256
2004.17486952287 54 10 3 14	fine	cConfPDFE
2004.17486952287 54 10 3 14	fine	cGetHK
2004.17486952287 54 10 3 14	fine	cConfPDFE
2004.17486952287 54 10 3 14	fine	cConfPDFE
2004.17486952287 54 10 3 14	fine	cGetHK
2004.17486952287 54 10 3 14	fine	cConfPDFE
2004.17486952287 54 10 3 14	fine	cConfPDFE
2004.17486952287 54 10 3 14	fine	cGetSingle
2004.17486952287 54 10 3 14	fine	cConfCal
2004.1748695449 54 10 3 15	fine	cClearIrq
2004.17486955449 54 10 3 15	fine	cStartRun
2004.17486958612 54 10 3 16	fine	cClearIrq
2004.17486961774 54 10 3 17	fine	cRead256
2004.17486961774 54 10 3 17	fine	cRead256
2004.17486964936 54 10 3 18	fine	cRead256
2004.17486968099 54 10 3 19	fine	cRead256
2004.17486968099 54 10 3 19	fine	cConfPDFE
2004.17486968099 54 10 3 19	fine	cGetHK
2004.17486968099 54 10 3 19	fine	cConfPDFE
2004.17486968099 54 10 3 19	fine	cConfPDFE
2004.17486968099 54 10 3 19	fine	cGetHK
2004.17486968099 54 10 3 19	fine	cConfPDFE
2004.17486968099 54 10 3 19	fine	cConfPDFE
2004.17486968099 54 10 3 19	fine	cGetSingle
2004.17486971261 54 10 3 20	fine	cConfCal
2004.17486971261 54 10 3 20	fine	cClearIrq
2004.17486971261 54 10 3 20	fine	cStartRun
2004.17486974423 54 10 3 21	fine	cClearIrq
2004.17486977586 54 10 3 22	fine	cRead256
2004.17486980748 54 10 3 23	fine	cRead256
2004.17486980748 54 10 3 23	fine	cRead256
2004.1748698391 54 10 3 24	fine	cRead256
2004.1748698391 54 10 3 24	fine	cConfPDFE
2004.1748698391 54 10 3 24	fine	cGetHK
2004.1748698391 54 10 3 24	fine	cConfPDFE
2004.1748698391 54 10 3 24	fine	cConfPDFE
2004.1748698391 54 10 3 24	fine	cGetHK
2004.1748698391 54 10 3 24	fine	cConfPDFE
2004.1748698391 54 10 3 24	fine	cConfPDFE
2004.1748698391 54 10 3 24	fine	cGetHK
2004.1748698391 54 10 3 24	fine	cConfPDFE
2004.17486987072 54 10 3 25	fine	cConfPDFE
2004.17486987072 54 10 3 25	fine	cGetHK

```

2004.17486987072 54 10 3 25      fine      cConfPDFE
2004.17486987072 54 10 3 25      fine      cGetSingle
2004.17486987072 54 10 3 25      fine      cConfCal
2004.17486987072 54 10 3 25      fine      cClearIrq
2004.17486987072 54 10 3 25      fine      cStartRun
2004.17486990235 54 10 3 26      fine      cClearIrq
2004.17486993397 54 10 3 27      fine      cRead256
2004.17486993397 54 10 3 27      fine      cRead256
2004.17486996559 54 10 3 28      fine      cRead256
2004.1748699722 54 10 3 29      fine      cRead256
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cGetHK
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cGetHK
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cGetHK
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cGetHK
2004.1748699722 54 10 3 29      fine      cConfPDFE
2004.1748699722 54 10 3 29      fine      cGetSingle
2004.1748699722 54 10 3 29      fine      cConfCal
2004.1748699722 54 10 3 29      fine      cClearIrq
2004.1748699722 54 10 3 29      fine      cStartRun
2004.17487006046 54 10 3 31      fine      cClearIrq
2004.17487006046 54 10 3 31      fine      cRead256
2004.17487009209 54 10 3 32      fine      cRead256
2004.17487012371 54 10 3 33      fine      cRead256
2004.17487015533 54 10 3 34      fine      cRead256
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cGetHK
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cGetHK
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cGetHK
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cGetHK
2004.17487015533 54 10 3 34      fine      cConfPDFE
2004.17487015533 54 10 3 34      fine      cGetSingle
2004.17487015533 54 10 3 34      fine      cConfCal
2004.17487015533 54 10 3 34      fine      cClearIrq
2004.17487015533 54 10 3 34      fine      cStartRun
2004.17487021858 54 10 3 36      fine      cClearIrq
2004.17487021858 54 10 3 36      fine      cRead256
2004.1748702502 54 10 3 37      fine      cRead256
2004.17487028183 54 10 3 38      fine      cRead256
2004.17487028183 54 10 3 38      fine      cRead256
2004.17487028183 54 10 3 38      fine      cConfPDFE
2004.17487028183 54 10 3 38      fine      cGetHK
2004.17487028183 54 10 3 38      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cGetHK
2004.17487031345 54 10 3 39      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cGetHK
2004.17487031345 54 10 3 39      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cGetHK
2004.17487031345 54 10 3 39      fine      cConfPDFE
2004.17487031345 54 10 3 39      fine      cGetSingle
2004.17487031345 54 10 3 39      fine      cClearIrq
2004.17487031345 54 10 3 39      fine      cEnPDFE
2004.17487034507 54 10 3 40      fine      cDrvPDFE
2004.17487034507 54 10 3 40      fine      cPwrPDFE
2004.17487034507 54 10 3 40      fine      cClearIrq
Command Test passed!!! OK.

```

Description of the format of the Check Counter Test:
Title and number of Test
Table for every amplitude: 4 different PDFE counters
- Total Counts, Counter Index of max Counts, and Max Counts-
and GetSingle Counter.

After every test, errors encountered.
Last line are the total number of errors encountered in total.

Test Mode T1: 1. CS Even Alone:

A=0	Total Counts	MaxCounts	Index of Max	
PDFE=0	17579		10966	252
PDFE=1	0		0	NA
PDFE=2	17579		11354	254
PDFE=3	0		0	NA
GetSingle CS 0:	17579			

	Total Counts	MaxCounts	Index of Max	
A=1				
PDFE=0	17579		10928	183
PDFE=1	0		0	NA
PDFE=2	17579		10860	183
PDFE=3	0		0	NA
GetSingle CS 0:	17579			
A=2				
PDFE=0	17579		10470	115
PDFE=1	0		0	NA
PDFE=2	17579		12009	116
PDFE=3	0		0	NA
GetSingle CS 0:	17579			
A=3				
PDFE=0	17579		8758	45
PDFE=1	0		0	NA
PDFE=2	17579		10134	45
PDFE=3	0		0	NA
GetSingle CS 0:	17579			

Test Mode T1: 2. CS Odd Alone:

	Total Counts	MaxCounts	Index of Max	
A=0				
PDFE=0	0		0	NA
PDFE=1	17579		11623	247
PDFE=2	0		0	NA
PDFE=3	17579		9776	247
GetSingle CS 1:	17579			
A=1				
PDFE=0	0		0	NA
PDFE=1	17579		10957	180
PDFE=2	0		0	NA
PDFE=3	17579		12579	178
GetSingle CS 1:	17579			
A=2				
PDFE=0	0		0	NA
PDFE=1	17579		11091	112
PDFE=2	0		0	NA
PDFE=3	17579		13401	113
GetSingle CS 1:	17579			
A=3				
PDFE=0	0		0	NA
PDFE=1	17579		12111	43
PDFE=2	0		0	NA
PDFE=3	17579		12217	43
GetSingle CS 1:	17579			

Test Mode T1: 3a. CS Even & CS Odd:

	Total Counts	MaxCounts	Index of Max	
A=0				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle CS 2:	17521			
A=1				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle CS 2:	17579			
A=2				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle CS 2:	17579			
A=3				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle CS 2:	17588			

Test Mode T1: 3b. CS Even & CS Odd:

	Total Counts	MaxCounts	Index of Max	
A=0				
PDFE=0	0		0	NA
PDFE=1	0		0	NA

PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle CS 3:	17579		
A=1			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle CS 3:	17579		
A=2			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle CS 3:	17579		
A=3			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle CS 3:	17579		

 Test Mode T1: 4. CS Even & GR Even:

A=0			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 0:	17579		
A=1			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 0:	17579		
A=2			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 0:	17579		
A=3			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 0:	17579		

 Test Mode T1: 5. CS Odd & GR Odd:

A=0			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 1:	17579		
A=1			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 1:	17579		
A=2			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 1:	17579		
A=3			
	Total Counts	MaxCounts	Index of Max
PDFE=0	0	0	NA
PDFE=1	0	0	NA
PDFE=2	0	0	NA
PDFE=3	0	0	NA
GetSingle GR 1:	17579		

 Test Mode T1: 6. CS Even & GR Odd:

A=0	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 3:	17577			

A=1	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 3:	17367			

A=2	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 3:	17562			

A=3	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 3:	17470			

 Test Mode T1: 7. CS Odd & GR Even:

A=0	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

A=1	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

A=2	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

A=3	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

 Counter Test passed!!! OK.

Two additional files are created:

- Filename: SEPT_T1_L1_10111100_2003_327
 - o Content: data acquired during the whole test and written to L1 data format (see RD4).
- Filename: SEPT_T1_HK_10111100_2003_327
 - o Content: HK acquired during the whole test.

7.2.2.2 T2

Filename: SEPT_T2_TEST_10111100_2003_327

Content:

Test Mode T2: SEPT Control Data
 Instrument Version: SEPT-E S/C B
 ESA/ESTEC

2004.17487072455 54 10 3 52	fine	cClearIrq
2004.17487075617 54 10 3 53	fine	cRead256
2004.17487075617 54 10 3 53	fine	cRead256
2004.1748707878 54 10 3 54	fine	cRead256
2004.17487081942 54 10 3 55	fine	cRead256
2004.17487081942 54 10 3 55	fine	cConfPDFE
2004.17487081942 54 10 3 55	fine	cGetHK
2004.17487081942 54 10 3 55	fine	cConfPDFE
2004.17487081942 54 10 3 55	fine	cConfPDFE
2004.17487081942 54 10 3 55	fine	cGetHK
2004.17487081942 54 10 3 55	fine	cConfPDFE
2004.17487081942 54 10 3 55	fine	cConfPDFE
2004.17487081942 54 10 3 55	fine	cGetHK
2004.17487081942 54 10 3 55	fine	cConfPDFE
2004.17487081942 54 10 3 55	fine	cGetSingle
2004.17487081942 54 10 3 55	fine	cConfCal
2004.17487081942 54 10 3 55	fine	cClearIrq
2004.17487081942 54 10 3 55	fine	cStartRun
2004.17487088267 54 10 3 57	fine	cClearIrq
2004.17487091429 54 10 3 58	fine	cRead256
2004.17487091429 54 10 3 58	fine	cRead256
2004.17487094591 54 10 3 59	fine	cRead256
2004.17487097753 54 10 4 0	fine	cRead256
2004.17487097753 54 10 4 0	fine	cConfPDFE
2004.17487097753 54 10 4 0	fine	cGetHK
2004.17487097753 54 10 4 0	fine	cConfPDFE
2004.17487097753 54 10 4 0	fine	cConfPDFE
2004.17487097753 54 10 4 0	fine	cGetHK
2004.17487097753 54 10 4 0	fine	cConfPDFE
2004.17487097753 54 10 4 0	fine	cConfPDFE
2004.17487097753 54 10 4 0	fine	cGetHK
2004.17487097753 54 10 4 0	fine	cConfPDFE
2004.17487097753 54 10 4 0	fine	cGetSingle
2004.17487100916 54 10 4 1	fine	cConfCal
2004.17487100916 54 10 4 1	fine	cClearIrq
2004.17487100916 54 10 4 1	fine	cStartRun
2004.17487104078 54 10 4 2	fine	cClearIrq
2004.1748710724 54 10 4 3	fine	cRead256
2004.17487110403 54 10 4 4	fine	cRead256
2004.17487113565 54 10 4 5	fine	cRead256
2004.17487113565 54 10 4 5	fine	cRead256
2004.17487116727 54 10 4 6	fine	cConfPDFE
2004.17487116727 54 10 4 6	fine	cGetHK
2004.17487116727 54 10 4 6	fine	cConfPDFE
2004.17487116727 54 10 4 6	fine	cConfPDFE
2004.17487116727 54 10 4 6	fine	cGetHK
2004.17487116727 54 10 4 6	fine	cConfPDFE
2004.17487116727 54 10 4 6	fine	cConfPDFE
2004.17487116727 54 10 4 6	fine	cGetHK
2004.17487116727 54 10 4 6	fine	cConfPDFE
2004.17487116727 54 10 4 6	fine	cGetSingle
2004.17487116727 54 10 4 6	fine	cConfCal
2004.17487116727 54 10 4 6	fine	cClearIrq
2004.17487116727 54 10 4 6	fine	cStartRun
2004.1748711989 54 10 4 7	fine	cClearIrq
2004.17487123052 54 10 4 8	fine	cRead256
2004.17487126214 54 10 4 9	fine	cRead256
2004.17487129377 54 10 4 10	fine	cRead256
2004.17487129377 54 10 4 10	fine	cRead256
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cGetHK
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cGetHK
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cGetHK
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cConfPDFE
2004.17487132539 54 10 4 11	fine	cGetSingle
2004.17487132539 54 10 4 11	fine	cConfCal
2004.17487132539 54 10 4 11	fine	cClearIrq
2004.17487132539 54 10 4 11	fine	cStartRun
2004.17487135701 54 10 4 12	fine	cClearIrq
2004.17487138864 54 10 4 13	fine	cRead256
2004.17487142026 54 10 4 14	fine	cRead256
2004.17487145188 54 10 4 15	fine	cRead256
2004.17487145188 54 10 4 15	fine	cRead256
2004.17487145188 54 10 4 15	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cGetHK
2004.17487148351 54 10 4 16	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cConfPDFE

2004.17487148351 54 10 4 16	fine	cGetHK
2004.17487148351 54 10 4 16	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cGetHK
2004.17487148351 54 10 4 16	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cGetHK
2004.17487148351 54 10 4 16	fine	cConfPDFE
2004.17487148351 54 10 4 16	fine	cGetSingle
2004.17487148351 54 10 4 16	fine	cConfCal
2004.17487148351 54 10 4 16	fine	cClearIrq
2004.17487148351 54 10 4 16	fine	cStartRun
2004.17487151513 54 10 4 17	fine	cClearIrq
2004.17487154675 54 10 4 18	fine	cRead256
2004.17487157837 54 10 4 19	fine	cRead256
2004.17487161 54 10 4 20	fine	cRead256
2004.17487161 54 10 4 20	fine	cRead256
2004.17487161 54 10 4 20	fine	cConfPDFE
2004.17487161 54 10 4 20	fine	cGetHK
2004.17487161 54 10 4 20	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cGetHK
2004.17487164162 54 10 4 21	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cGetHK
2004.17487164162 54 10 4 21	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cGetHK
2004.17487164162 54 10 4 21	fine	cConfPDFE
2004.17487164162 54 10 4 21	fine	cGetSingle
2004.17487164162 54 10 4 21	fine	cConfCal
2004.17487164162 54 10 4 21	fine	cClearIrq
2004.17487167324 54 10 4 22	fine	cStartRun
2004.17487170487 54 10 4 23	fine	cClearIrq
2004.17487173649 54 10 4 24	fine	cRead256
2004.17487173649 54 10 4 24	fine	cRead256
2004.17487176811 54 10 4 25	fine	cRead256
2004.17487179974 54 10 4 26	fine	cRead256
2004.17487179974 54 10 4 26	fine	cConfPDFE
2004.17487179974 54 10 4 26	fine	cGetHK
2004.17487179974 54 10 4 26	fine	cConfPDFE
2004.17487179974 54 10 4 26	fine	cConfPDFE
2004.17487179974 54 10 4 26	fine	cGetHK
2004.17487179974 54 10 4 26	fine	cConfPDFE
2004.17487179974 54 10 4 26	fine	cConfPDFE
2004.17487179974 54 10 4 26	fine	cGetHK
2004.17487179974 54 10 4 26	fine	cConfPDFE
2004.17487179974 54 10 4 26	fine	cGetSingle
2004.17487179974 54 10 4 26	fine	cConfCal
2004.17487179974 54 10 4 26	fine	cClearIrq
2004.17487183136 54 10 4 27	fine	cStartRun
2004.17487186298 54 10 4 28	fine	cClearIrq
2004.17487189461 54 10 4 29	fine	cRead256
2004.17487189461 54 10 4 29	fine	cRead256
2004.17487192623 54 10 4 30	fine	cRead256
2004.17487195785 54 10 4 31	fine	cRead256
2004.17487195785 54 10 4 31	fine	cConfPDFE
2004.17487195785 54 10 4 31	fine	cGetHK
2004.17487195785 54 10 4 31	fine	cConfPDFE
2004.17487195785 54 10 4 31	fine	cConfPDFE
2004.17487195785 54 10 4 31	fine	cGetHK
2004.17487195785 54 10 4 31	fine	cConfPDFE
2004.17487195785 54 10 4 31	fine	cConfPDFE
2004.17487195785 54 10 4 31	fine	cGetSingle
2004.17487195785 54 10 4 31	fine	cConfCal
2004.17487198948 54 10 4 32	fine	cClearIrq
2004.17487198948 54 10 4 32	fine	cStartRun
2004.1748720211 54 10 4 33	fine	cClearIrq
2004.17487205272 54 10 4 34	fine	cRead256
2004.17487205272 54 10 4 34	fine	cRead256
2004.17487208435 54 10 4 35	fine	cRead256
2004.17487211597 54 10 4 36	fine	cRead256
2004.17487211597 54 10 4 36	fine	cConfPDFE
2004.17487211597 54 10 4 36	fine	cGetHK
2004.17487211597 54 10 4 36	fine	cConfPDFE
2004.17487211597 54 10 4 36	fine	cConfPDFE
2004.17487211597 54 10 4 36	fine	cGetHK
2004.17487211597 54 10 4 36	fine	cConfPDFE
2004.17487211597 54 10 4 36	fine	cConfPDFE
2004.17487211597 54 10 4 36	fine	cGetSingle
2004.17487211597 54 10 4 36	fine	cConfCal
2004.17487214759 54 10 4 37	fine	cGetSingle

2004.17487214759 54 10 4 37	fine	cConfCal
2004.17487214759 54 10 4 37	fine	cClearlq
2004.17487214759 54 10 4 37	fine	cStartRun
2004.17487217921 54 10 4 38	fine	cClearlq
2004.17487221084 54 10 4 39	fine	cRead256
2004.17487221084 54 10 4 39	fine	cRead256
2004.17487224246 54 10 4 40	fine	cRead256
2004.17487227408 54 10 4 41	fine	cRead256
2004.17487227408 54 10 4 41	fine	cConfPDFE
2004.17487227408 54 10 4 41	fine	cGetHK
2004.17487227408 54 10 4 41	fine	cConfPDFE
2004.17487227408 54 10 4 41	fine	cConfPDFE
2004.17487227408 54 10 4 41	fine	cGetHK
2004.17487227408 54 10 4 41	fine	cConfPDFE
2004.17487227408 54 10 4 41	fine	cConfPDFE
2004.17487227408 54 10 4 41	fine	cGetHK
2004.17487227408 54 10 4 41	fine	cConfPDFE
2004.17487227408 54 10 4 41	fine	cGetSingle
2004.17487230571 54 10 4 42	fine	cConfCal
2004.17487230571 54 10 4 42	fine	cClearlq
2004.17487230571 54 10 4 42	fine	cStartRun
2004.17487236895 54 10 4 44	fine	cClearlq
2004.17487236895 54 10 4 44	fine	cRead256
2004.17487240058 54 10 4 45	fine	cRead256
2004.1748724322 54 10 4 46	fine	cRead256
2004.17487246382 54 10 4 47	fine	cRead256
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cGetHK
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cGetHK
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cGetHK
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cConfPDFE
2004.17487246382 54 10 4 47	fine	cGetSingle
2004.17487246382 54 10 4 47	fine	cConfCal
2004.17487246382 54 10 4 47	fine	cClearlq
2004.17487246382 54 10 4 47	fine	cStartRun
2004.17487252707 54 10 4 49	fine	cClearlq
2004.17487252707 54 10 4 49	fine	cRead256
2004.17487255869 54 10 4 50	fine	cRead256
2004.17487259032 54 10 4 51	fine	cRead256
2004.17487262194 54 10 4 52	fine	cRead256
2004.17487262194 54 10 4 52	fine	cConfPDFE
2004.17487262194 54 10 4 52	fine	cGetHK
2004.17487262194 54 10 4 52	fine	cConfPDFE
2004.17487262194 54 10 4 52	fine	cConfPDFE
2004.17487262194 54 10 4 52	fine	cGetHK
2004.17487262194 54 10 4 52	fine	cConfPDFE
2004.17487262194 54 10 4 52	fine	cConfPDFE
2004.17487262194 54 10 4 52	fine	cGetHK
2004.17487262194 54 10 4 52	fine	cConfPDFE
2004.17487262194 54 10 4 52	fine	cGetSingle
2004.17487262194 54 10 4 52	fine	cConfCal
2004.17487262194 54 10 4 52	fine	cClearlq
2004.17487262194 54 10 4 52	fine	cStartRun
2004.17487268519 54 10 4 54	fine	cClearlq
2004.17487268519 54 10 4 54	fine	cRead256
2004.17487271681 54 10 4 55	fine	cRead256
2004.17487274843 54 10 4 56	fine	cRead256
2004.17487278005 54 10 4 57	fine	cRead256
2004.17487278005 54 10 4 57	fine	cConfPDFE
2004.17487278005 54 10 4 57	fine	cGetHK
2004.17487278005 54 10 4 57	fine	cConfPDFE
2004.17487278005 54 10 4 57	fine	cConfPDFE
2004.17487278005 54 10 4 57	fine	cGetHK
2004.17487278005 54 10 4 57	fine	cConfPDFE
2004.17487278005 54 10 4 57	fine	cConfPDFE
2004.17487278005 54 10 4 57	fine	cGetHK
2004.17487278005 54 10 4 57	fine	cConfPDFE
2004.17487278005 54 10 4 57	fine	cGetSingle
2004.17487278005 54 10 4 57	fine	cConfCal
2004.17487278005 54 10 4 57	fine	cClearlq
2004.17487278005 54 10 4 57	fine	cStartRun
2004.1748728433 54 10 4 59	fine	cClearlq
2004.1748728433 54 10 4 59	fine	cRead256
2004.17487287492 54 10 5 0	fine	cRead256
2004.17487290655 54 10 5 1	fine	cRead256
2004.17487293817 54 10 5 2	fine	cRead256
2004.17487293817 54 10 5 2	fine	cConfPDFE

2004.17487293817 54 10 5 2	fine	cGetHK
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cGetHK
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cGetHK
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cGetHK
2004.17487293817 54 10 5 2	fine	cConfPDFE
2004.17487293817 54 10 5 2	fine	cGetSingle
2004.17487296979 54 10 5 3	fine	cConfCal
2004.17487300142 54 10 5 4	fine	cClearIrq
2004.17487300142 54 10 5 4	fine	cStartRun
2004.17487303304 54 10 5 5	fine	cClearIrq
2004.17487306466 54 10 5 6	fine	cRead256
2004.17487309629 54 10 5 7	fine	cRead256
2004.17487309629 54 10 5 7	fine	cRead256
2004.17487312791 54 10 5 8	fine	cRead256
2004.17487312791 54 10 5 8	fine	cConfPDFE
2004.17487312791 54 10 5 8	fine	cGetHK
2004.17487312791 54 10 5 8	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cGetHK
2004.17487315953 54 10 5 9	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cGetHK
2004.17487315953 54 10 5 9	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cGetHK
2004.17487315953 54 10 5 9	fine	cConfPDFE
2004.17487315953 54 10 5 9	fine	cGetSingle
2004.17487315953 54 10 5 9	fine	cConfCal
2004.17487315953 54 10 5 9	fine	cClearIrq
2004.17487315953 54 10 5 9	fine	cStartRun
2004.17487322278 54 10 5 11	fine	cClearIrq
2004.17487322278 54 10 5 11	fine	cRead256
2004.1748732544 54 10 5 12	fine	cRead256
2004.17487328603 54 10 5 13	fine	cRead256
2004.17487328603 54 10 5 13	fine	cRead256
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cGetHK
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cGetHK
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cGetHK
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cConfPDFE
2004.17487331765 54 10 5 14	fine	cGetSingle
2004.17487331765 54 10 5 14	fine	cConfCal
2004.17487331765 54 10 5 14	fine	cClearIrq
2004.17487331765 54 10 5 14	fine	cStartRun
2004.17487338089 54 10 5 16	fine	cClearIrq
2004.17487341252 54 10 5 17	fine	cRead256
2004.17487341252 54 10 5 17	fine	cRead256
2004.17487344414 54 10 5 18	fine	cRead256
2004.17487347576 54 10 5 19	fine	cRead256
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cGetHK
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cGetHK
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cGetHK
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cConfPDFE
2004.17487350739 54 10 5 20	fine	cGetSingle
2004.17487350739 54 10 5 20	fine	cConfCal
2004.17487350739 54 10 5 20	fine	cClearIrq
2004.17487350739 54 10 5 20	fine	cStartRun
2004.17487357063 54 10 5 22	fine	cClearIrq
2004.17487357063 54 10 5 22	fine	cRead256
2004.17487360226 54 10 5 23	fine	cRead256
2004.17487363388 54 10 5 24	fine	cRead256
2004.17487363388 54 10 5 24	fine	cRead256
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cGetHK
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cGetHK
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cGetHK
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cConfPDFE

2004.1748736655 54 10 5 25	fine	cGetHK
2004.1748736655 54 10 5 25	fine	cConfPDFE
2004.1748736655 54 10 5 25	fine	cGetSingle
2004.17487369713 54 10 5 26	fine	cConfCal
2004.17487369713 54 10 5 26	fine	cClearIrq
2004.17487369713 54 10 5 26	fine	cStartRun
2004.17487372875 54 10 5 27	fine	cClearIrq
2004.17487376037 54 10 5 28	fine	cRead256
2004.17487376037 54 10 5 28	fine	cRead256
2004.174873792 54 10 5 29	fine	cRead256
2004.17487382362 54 10 5 30	fine	cRead256
2004.17487382362 54 10 5 30	fine	cConfPDFE
2004.17487382362 54 10 5 30	fine	cGetHK
2004.17487382362 54 10 5 30	fine	cConfPDFE
2004.17487382362 54 10 5 30	fine	cConfPDFE
2004.17487382362 54 10 5 30	fine	cGetHK
2004.17487382362 54 10 5 30	fine	cConfPDFE
2004.17487382362 54 10 5 30	fine	cConfPDFE
2004.17487382362 54 10 5 30	fine	cGetHK
2004.17487382362 54 10 5 30	fine	cConfPDFE
2004.17487382362 54 10 5 30	fine	cGetSingle
2004.17487382362 54 10 5 30	fine	cConfCal
2004.17487382362 54 10 5 30	fine	cClearIrq
2004.17487385524 54 10 5 31	fine	cStartRun
2004.17487388687 54 10 5 32	fine	cClearIrq
2004.17487391849 54 10 5 33	fine	cRead256
2004.17487391849 54 10 5 33	fine	cRead256
2004.17487395011 54 10 5 34	fine	cRead256
2004.17487398173 54 10 5 35	fine	cRead256
2004.17487398173 54 10 5 35	fine	cConfPDFE
2004.17487398173 54 10 5 35	fine	cGetHK
2004.17487398173 54 10 5 35	fine	cConfPDFE
2004.17487398173 54 10 5 35	fine	cConfPDFE
2004.17487398173 54 10 5 35	fine	cGetHK
2004.17487398173 54 10 5 35	fine	cConfPDFE
2004.17487398173 54 10 5 35	fine	cConfPDFE
2004.17487398173 54 10 5 35	fine	cGetHK
2004.17487398173 54 10 5 35	fine	cConfPDFE
2004.17487398173 54 10 5 35	fine	cGetSingle
2004.17487398173 54 10 5 35	fine	cConfCal
2004.17487398173 54 10 5 35	fine	cClearIrq
2004.17487398173 54 10 5 35	fine	cStartRun
2004.17487404498 54 10 5 37	fine	cClearIrq
2004.17487404498 54 10 5 37	fine	cRead256
2004.1748740766 54 10 5 38	fine	cRead256
2004.17487410823 54 10 5 39	fine	cRead256
2004.17487413985 54 10 5 40	fine	cRead256
2004.17487413985 54 10 5 40	fine	cConfPDFE
2004.17487413985 54 10 5 40	fine	cGetHK
2004.17487413985 54 10 5 40	fine	cConfPDFE
2004.17487413985 54 10 5 40	fine	cConfPDFE
2004.17487413985 54 10 5 40	fine	cGetHK
2004.17487413985 54 10 5 40	fine	cConfPDFE
2004.17487413985 54 10 5 40	fine	cConfPDFE
2004.17487413985 54 10 5 40	fine	cGetSingle
2004.17487413985 54 10 5 40	fine	cConfCal
2004.17487413985 54 10 5 40	fine	cClearIrq
2004.17487413985 54 10 5 40	fine	cStartRun
2004.1748742031 54 10 5 42	fine	cClearIrq
2004.1748742031 54 10 5 42	fine	cRead256
2004.17487423472 54 10 5 43	fine	cRead256
2004.17487426634 54 10 5 44	fine	cRead256
2004.17487426634 54 10 5 44	fine	cRead256
2004.17487429797 54 10 5 45	fine	cConfPDFE
2004.17487429797 54 10 5 45	fine	cGetHK
2004.17487429797 54 10 5 45	fine	cConfPDFE
2004.17487429797 54 10 5 45	fine	cConfPDFE
2004.17487429797 54 10 5 45	fine	cGetHK
2004.17487429797 54 10 5 45	fine	cConfPDFE
2004.17487429797 54 10 5 45	fine	cConfPDFE
2004.17487429797 54 10 5 45	fine	cGetHK
2004.17487429797 54 10 5 45	fine	cConfPDFE
2004.17487429797 54 10 5 45	fine	cGetSingle
2004.17487432959 54 10 5 46	fine	cConfCal
2004.17487432959 54 10 5 46	fine	cClearIrq
2004.17487432959 54 10 5 46	fine	cStartRun
2004.17487436121 54 10 5 47	fine	cClearIrq
2004.17487439284 54 10 5 48	fine	cRead256
2004.17487442446 54 10 5 49	fine	cRead256

2004.17487445608 54 10 5 50	fine	cRead256
2004.1748744877 54 10 5 51	fine	cRead256
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cGetHK
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cGetHK
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cGetHK
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cGetHK
2004.1748744877 54 10 5 51	fine	cConfPDFE
2004.1748744877 54 10 5 51	fine	cGetSingle
2004.1748744877 54 10 5 51	fine	cConfCal
2004.1748744877 54 10 5 51	fine	cClearIrq
2004.1748744877 54 10 5 51	fine	cStartRun
2004.17487455095 54 10 5 53	fine	cClearIrq
2004.17487458257 54 10 5 54	fine	cRead256
2004.1748746142 54 10 5 55	fine	cRead256
2004.17487464582 54 10 5 56	fine	cRead256
2004.17487467744 54 10 5 57	fine	cRead256
2004.17487467744 54 10 5 57	fine	cConfPDFE
2004.17487467744 54 10 5 57	fine	cGetHK
2004.17487467744 54 10 5 57	fine	cConfPDFE
2004.17487467744 54 10 5 57	fine	cConfPDFE
2004.17487467744 54 10 5 57	fine	cGetHK
2004.17487470907 54 10 5 58	fine	cConfPDFE
2004.17487470907 54 10 5 58	fine	cConfPDFE
2004.17487470907 54 10 5 58	fine	cGetHK
2004.17487470907 54 10 5 58	fine	cConfPDFE
2004.17487470907 54 10 5 58	fine	cConfPDFE
2004.17487470907 54 10 5 58	fine	cGetHK
2004.17487470907 54 10 5 58	fine	cConfPDFE
2004.17487470907 54 10 5 58	fine	cConfPDFE
2004.17487470907 54 10 5 58	fine	cGetSingle
2004.17487470907 54 10 5 58	fine	cConfCal
2004.17487470907 54 10 5 58	fine	cClearIrq
2004.17487470907 54 10 5 58	fine	cStartRun
2004.17487474069 54 10 5 59	fine	cClearIrq
2004.17487477231 54 10 6 0	fine	cRead256
2004.17487480394 54 10 6 1	fine	cRead256
2004.17487483556 54 10 6 2	fine	cRead256
2004.17487486718 54 10 6 3	fine	cRead256
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cGetHK
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cGetHK
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cGetHK
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cConfPDFE
2004.17487486718 54 10 6 3	fine	cGetSingle
2004.17487486718 54 10 6 3	fine	cConfCal
2004.17487486718 54 10 6 3	fine	cClearIrq
2004.17487486718 54 10 6 3	fine	cStartRun
2004.17487493043 54 10 6 5	fine	cClearIrq
2004.17487493043 54 10 6 5	fine	cRead256
2004.17487496205 54 10 6 6	fine	cRead256
2004.17487499368 54 10 6 7	fine	cRead256
2004.1748750253 54 10 6 8	fine	cRead256
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cGetHK
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cGetHK
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cGetHK
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cConfPDFE
2004.1748750253 54 10 6 8	fine	cGetSingle
2004.17487505692 54 10 6 9	fine	cConfCal
2004.17487505692 54 10 6 9	fine	cClearIrq
2004.17487505692 54 10 6 9	fine	cStartRun
2004.17487512017 54 10 6 11	fine	cClearIrq
2004.17487512017 54 10 6 11	fine	cRead256
2004.17487515179 54 10 6 12	fine	cRead256
2004.17487518341 54 10 6 13	fine	cRead256
2004.17487521504 54 10 6 14	fine	cRead256
2004.17487521504 54 10 6 14	fine	cConfPDFE
2004.17487521504 54 10 6 14	fine	cGetHK
2004.17487521504 54 10 6 14	fine	cConfPDFE
2004.17487521504 54 10 6 14	fine	cConfPDFE
2004.17487521504 54 10 6 14	fine	cGetHK
2004.17487521504 54 10 6 14	fine	cConfPDFE
2004.17487521504 54 10 6 14	fine	cConfPDFE

```

2004.17487521504 54 10 6 14      fine      cGetHK
2004.17487521504 54 10 6 14      fine      cConfPDFE
2004.17487521504 54 10 6 14      fine      cConfPDFE
2004.17487521504 54 10 6 14      fine      cGetHK
2004.17487521504 54 10 6 14      fine      cConfPDFE
2004.17487521504 54 10 6 14      fine      cGetSingle
2004.17487521504 54 10 6 14      fine      cConfCal
2004.17487521504 54 10 6 14      fine      cClearIrq
2004.17487521504 54 10 6 14      fine      cStartRun
2004.17487527828 54 10 6 16      fine      cClearIrq
2004.17487527828 54 10 6 16      fine      cRead256
2004.17487530991 54 10 6 17      fine      cRead256
2004.17487534153 54 10 6 18      fine      cRead256
2004.17487537315 54 10 6 19      fine      cRead256
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cGetHK
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cGetHK
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cGetHK
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cConfPDFE
2004.17487537315 54 10 6 19      fine      cGetSingle
2004.17487537315 54 10 6 19      fine      cConfCal
2004.17487537315 54 10 6 19      fine      cClearIrq
2004.17487537315 54 10 6 19      fine      cStartRun
2004.1748754364 54 10 6 21      fine      cClearIrq
2004.1748754364 54 10 6 21      fine      cRead256
2004.17487546802 54 10 6 22      fine      cRead256
2004.17487549965 54 10 6 23      fine      cRead256
2004.17487549965 54 10 6 23      fine      cRead256
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cGetHK
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cGetHK
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cGetHK
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cGetHK
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cConfPDFE
2004.17487553127 54 10 6 24      fine      cGetSingle
2004.17487553127 54 10 6 24      fine      cConfCal
2004.17487553127 54 10 6 24      fine      cClearIrq
2004.17487553127 54 10 6 24      fine      cStartRun
2004.17487559452 54 10 6 26      fine      cClearIrq
2004.17487559452 54 10 6 26      fine      cRead256
2004.17487562614 54 10 6 27      fine      cRead256
2004.17487565776 54 10 6 28      fine      cRead256
2004.17487565776 54 10 6 28      fine      cRead256
2004.17487565776 54 10 6 28      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cGetHK
2004.17487568938 54 10 6 29      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cGetHK
2004.17487568938 54 10 6 29      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cGetHK
2004.17487568938 54 10 6 29      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cConfPDFE
2004.17487568938 54 10 6 29      fine      cGetSingle
2004.17487572101 54 10 6 30      fine      cClearIrq
2004.17487572101 54 10 6 30      fine      cEnPDFE
2004.17487572101 54 10 6 30      fine      cDrvPDFE
2004.17487572101 54 10 6 30      fine      cPwrPDFE
2004.17487572101 54 10 6 30      fine      cClearIrq
Command Test passed!!! OK.
    
```

Description of the format of the Check Counter Test:
 Title and number of Test
 Table for every amplitude: 4 different PDFE counters
 - Total Counts, Counter Index of max Counts, and Max Counts-
 and GetSingle Counter.

After every test, errors encountered.
 Last line are the total number of errors encountered in total.

Test Mode T2: CS Even & CS Odd:

A=0	Total Counts	MaxCounts	Index of Max
PDFE=0	17579		10658

PDFE=1	17579	10394	249
PDFE=2	17579	17578	255
PDFE=3	17579	9822	249
GetSingle CS 3:	17579		
A=1	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	9347	186
PDFE=1	17579	12275	181
PDFE=2	17579	10066	185
PDFE=3	17579	9003	180
GetSingle CS 3:	17579		
A=2	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	8404	118
PDFE=1	17579	9386	114
PDFE=2	17579	8768	118
PDFE=3	17579	9943	115
GetSingle CS 3:	17579		
A=3	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	10266	47
PDFE=1	17579	11986	44
PDFE=2	17579	10805	46
PDFE=3	17579	13348	45
GetSingle CS 3:	17579		

 Test Mode T2: CS Even & CS Odd :

A=0	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	11107	255
PDFE=1	17579	10448	249
PDFE=2	17579	17578	255
PDFE=3	17579	9826	249
GetSingle CS2:	17489		
A=1	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	9491	186
PDFE=1	17579	12336	181
PDFE=2	17579	9698	185
PDFE=3	17579	8585	181
GetSingle CS2:	17578		
A=2	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	8396	118
PDFE=1	17579	9622	114
PDFE=2	17579	8962	118
PDFE=3	17579	10158	115
GetSingle CS2:	17579		
A=3	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	10316	47
PDFE=1	17579	12191	44
PDFE=2	17579	10452	46
PDFE=3	17579	13444	45
GetSingle CS2:	17592		

 Test Mode T2: CS Even & CS Odd:

A=0	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	11484	255
PDFE=1	17579	10076	249
PDFE=2	17579	17578	255
PDFE=3	17579	9680	249
GetSingle CS 1:	17579		
A=1	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	9318	186
PDFE=1	17579	11804	181
PDFE=2	17579	9244	185
PDFE=3	17579	9031	181
GetSingle CS 1:	17579		
A=2	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	8481	118
PDFE=1	17579	10108	114
PDFE=2	17579	9178	118
PDFE=3	17579	10402	115
GetSingle CS 1:	17579		
A=3	Total Counts	MaxCounts	Index of Max
PDFE=0	17579	10095	47
PDFE=1	17579	12087	44
PDFE=2	17579	10252	46
PDFE=3	17579	13154	45
GetSingle CS 1:	17579		

 Test Mode T2: CS Even & CS Odd:

	Total Counts	MaxCounts	Index of Max	
A=0				
PDFE=0	17579		11691	255
PDFE=1	17579		9580	249
PDFE=2	17579		17578	255
PDFE=3	17579		9449	249
GetSingle CS 0:	17574			
A=1				
PDFE=0	17579		9429	186
PDFE=1	17579		11802	181
PDFE=2	17579		8847	185
PDFE=3	17579		9594	181
GetSingle CS 0:	17551			
A=2				
PDFE=0	17579		8676	118
PDFE=1	17579		10356	114
PDFE=2	17579		9271	118
PDFE=3	17579		10466	115
GetSingle CS 0:	17576			
A=3				
PDFE=0	17579		10106	47
PDFE=1	17579		12018	44
PDFE=2	17579		10042	46
PDFE=3	17579		13092	45
GetSingle CS 0:	17555			

Test Mode T2: GR Odd:

	Total Counts	MaxCounts	Index of Max	
A=0				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR 3:	17579			
A=1				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR 3:	17469			
A=2				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR 3:	17579			
A=3				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR 3:	17577			

Test Mode T2: GR Odd:

	Total Counts	MaxCounts	Index of Max	
A=0				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR1:	17579			
A=1				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR1:	17579			
A=2				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR1:	17579			
A=3				
PDFE=0	0		0	NA
PDFE=1	0		0	NA
PDFE=2	0		0	NA
PDFE=3	0		0	NA
GetSingle GR1:	17579			

Test Mode T2: GR Even:

A=0	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

A=1	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

A=2	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

A=3	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 2:	17579			

Test Mode T2: GR Even:

A=0	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 0:	17579			

A=1	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 0:	17579			

A=2	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 0:	17579			

A=3	Total Counts	MaxCounts	Index of Max	
PDFE=0	0	0	0	NA
PDFE=1	0	0	0	NA
PDFE=2	0	0	0	NA
PDFE=3	0	0	0	NA
GetSingle GR 0:	17579			

Counter Test passed!!! OK.

Two additional files are created:

- Filename: SEPT_T2_L1_10111100_2003_327
 - o Content: data acquired during the whole test and written to L1 data format (see RD4).
- Filename: SEPT_T2_TEST_10111100_2003_327

Content: HK acquired during the whole test.

7.2.3 Nominal mode script

The data are stored in different files

- L1 format file
- HK file