



SDM10

SOFTWARE VERIFICATION REPORT SUMMARY

**CENTER FOR SPACE RESEARCH
MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

Title: **Use of BEP Parameter Block Slots Verification Procedure**

| | | | |
|------------------------|-----------------|--------------------------|----------------|
| Data Base Part Number: | 36-57302.12 | Date: | April 30, 1998 |
| Procedure Number: | 36-57301.12 | Procedure Name: | RunFromSlot |
| Report Number: | 36-57303.120101 | Report/Script File Name: | RunFromSlot-12 |
| Number of sub reports | Passed | | 37 |
| Number of sub reports | Failed | | 0 |

Comments:
The test was run against S/W release 1.5, not 1.4 as indicated in the report. The full complement of 6 DEAs was unavailable during the test, which used the ACIS Engineering Unit. In order to verify the DEA housekeeping steps, a software patch (*Patch1.5/DeaSim*) was used to simulate the DEA hardware.

Test Deviations:
Lack of the full complement of DEAs is a technical violation of the procedure (*e.g.* §4.1.1.1), but use of a software patch to simulate them is considered acceptable since the purpose of the test is to verify the BEP slot management, not the hardware interface to the video boards themselves.

98/05/01
13:28:53

report-RunSl.1-98.04.30.15:11:55

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Report Number: _____

DATE RUN: 30 Apr 1998 at 14:21

VERIFICATION REPORT: 36-57303.120101; REV: 01; Run from Slot

TEST PROCEDURE: 36-57301.12; REV: B;

TEST SCRIPT: 36-57302.120101; Rev: 01

SCRIPT FILE: ./RunSl.1

WORKING DIRECTORY: /amd/snebulos/h1/alan/VER_PROCS/RunFromSlot-12/scripts

LAST MODIFIED: May 29 14:21

CEI PARAGRAPHS VERIFIED: none

PROCEDURE PARAGRAPHS VERIFIED: 4.1

NUMBER OF DEVIATIONS: 1 DEA's not used - patches do not report DEA values

SOFTWARE VERSION: Flight-1.4

IPCL VERSION: ipcl_struct.xs3,v 1.17 1996/07/18 09:12:41

HARDWARE CONFIGURATION: BEP=1E FEP=6E DEA=0 ON CYPRESS

HOST: cypress/sun4/sparc/80715546

TEST_CONDUCTOR:

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RCS STATUS: VERSION 1.1 DATE 97.05.29.11.24.40

This script verifies that default TE Blocks 0, 2, and 4
can be invoked

SUMMARY OF TEST RESULTS: PASSED

Cognizant Engineer: _____

Date: _____

Quality Assurance: _____

Date: _____

SUMMARY OF TEST RESULTS: FAILED

PASSED:

4.1.1
4.1.2
4.1.3
4.1.4
4.1.5
4.1.6
4.1.7
4.1.8
4.1.9
4.1.10
4.1.11
4.1.12
4.1.13
4.1.14
4.1.15
4.1.16
4.1.17
4.1.18
4.1.19
4.1.20
4.1.21
4.1.22
4.1.23
4.1.24
4.1.25
4.1.26
4.1.27
4.1.29
4.1.28
4.1.30
4.1.29
4.1.30
4.1.31
4.1.32
4.1.33
4.1.34
4.1.35

TEST START TIME: 14:21:11

Q1 => Are DEA boards in slots 0 1 2 3 6 7 (y/n)? y

TEST PASSED

TEST PROCEDURE STEP: 4.1.2

COMMAND: halt bep

EXPECTED RESULT: OK

ACTUAL RESULT: OK

TEST PASSED

TEST PROCEDURE STEP: 4.1.3

COMMAND: run bep

EXPECTED RESULT: OK

ACTUAL RESULT: OK
TEST PASSED

TEST PROCEDURE STEP: 4.1.4
COMMAND: dump 1 te
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

TEST PROCEDURE STEP: 4.1.5
COMMAND: dump 2 dea
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

COMMAND: change 3 systemConfig {
 paramBlockName = configSetting
 itemId = 0
 itemValue = 0
}
TEST PROCEDURE STEP: 4.1.6

COMMAND: change 4 systemConfig {
 paramBlockName = configSetting
 itemId = 0
 itemValue = 207
}
TEST PROCEDURE STEP: 4.1.7

COMMAND: change 5 systemConfig {
 paramBlockName = configSetting
 itemId = 1
 itemValue = 0
}
TEST PROCEDURE STEP: 4.1.8

COMMAND: change 6 systemConfig {
 paramBlockName = configSetting
 itemId = 1
 itemValue = 63
}
TEST PROCEDURE STEP: 4.1.9

Delaying for 60 seconds

TEST PROCEDURE STEP: 4.1.10
COMMAND: dump 7 huffman
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

TEST PROCEDURE STEP: 4.1.11
COMMAND: start 8 te 0
EXPECTED RESULT: OK
ACTUAL RESULT: OK

TEST PASSED

TEST PROCEDURE STEP: 4.1.12
COMMAND: start 9 dea 0
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

Q13 => Stop run (y/n)? y
TEST PASSED

COMMAND: stop 10 science
TEST PROCEDURE STEP: 4.1.14

COMMAND: halt bep
TEST PROCEDURE STEP: 4.1.15

COMMAND: run bep
TEST PROCEDURE STEP: 4.1.16
Q17 => Did report show FEP CCD select of 7 0 1 2 3 6 and TE-FAINT (y/n)? y
TEST PASSED
Q18 => Is parameter block ID 0x80000000 (y/n)? y
TEST PASSED
Q19 => Are dea parameters correct (y/n)? y
TEST PASSED

TEST PROCEDURE STEP: 4.1.20
COMMAND: start 11 te 2
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

TEST PROCEDURE STEP: 4.1.21
COMMAND: start 12 dea 2
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

Q22 => Stop run (y/n)? y
TEST PASSED

COMMAND: stop 13 science
TEST PROCEDURE STEP: 4.1.23

COMMAND: halt bep
TEST PROCEDURE STEP: 4.1.24

COMMAND: run bep
TEST PROCEDURE STEP: 4.1.25
Q26 => Did report show FEP CCD select of 7 0 1 2 3 6 and TE-GRADED (y/n)? y
TEST PASSED
Q27 => Is parameter block ID 0x80000002 (y/n)? y
TEST PASSED
Q28 => Are dea parameters correct (y/n)? y
TEST PASSED

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TEST PROCEDURE STEP: 4.1.29
COMMAND: start 14 te 4
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

TEST PROCEDURE STEP: 4.1.30
COMMAND: start 15 dea 4
EXPECTED RESULT: OK
ACTUAL RESULT: OK
TEST PASSED

Q29 => Stop run (y/n)? y
TEST PASSED

COMMAND: stop 16 science
TEST PROCEDURE STEP: 4.1.30

COMMAND: halt bep
TEST PROCEDURE STEP: 4.1.31

COMMAND: run bep
TEST PROCEDURE STEP: 4.1.32
Q33 => Did report show FEP CCD select of 7 0 1 2 3 6 and TE-GRADED (y/n)? y
TEST PASSED
Q34 => Is parameter block ID 0x80000004 (y/n)? y
TEST PASSED
Q35 => Are dea parameters correct (y/n)? y
TEST PASSED

TEST END TIME: 15/11/49