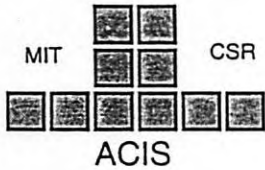


ACIS Verification Summary Report

Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.7.5.1 General (VRSD 3.7.5.1-3)
Requirement Statement: On-orbit changes capability and memory dump capability shall be provided.	
Verification Method:	Demonstration
Procedure Number: 36-57301.13	
Configuration:	
Cycle Time:	
Verification Discussion/Results:	
Refer to Report 36-57303.08.4.7, Rev. 01	
Name: MemPatch	
Test Quantity	4
Passed	4
Failed	0
SDM 10 ACIS SW System Configuration Parameters Verification Reports	

Amyce E. Buehler
ACIS Cognizant Engineer

12/30/97
Date



SDM10

SOFTWARE VERIFICATION REPORT SUMMARY

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

Title: **ACIS SW Memory Patching Verification Report**

Data Base Part Number:	36-57302.08	Date:	December 30, 1997
Procedure Number:	36-57301.08	Procedure Name:	MemPatch
Report Number:	See comments	Report/Script File Name:	MemPatch-8
Number of sub reports	Passed	4	
Number of sub reports	Failed	0	

Comments:
Report Numbers:
36-57303.08.4.1 36-57303.08.4.3 36-57303.08.4.4
36-57303.08.4.7

Test Deviations:
NONE

Cognizant Engineer: Royce Buehler

DATE RUN: December 29, 1997 at 15:30
REPORT PART NUMBER: 36-57303.08.4.7; Rev 01; FEP Patch management
TEST PROCEDURE: 36-57301.08; Rev A
VRSD NUMBER: 36-01510.233
TEST SCRIPT: pv47.proc
WORKING DIRECTORY: /acis/h5/buehler/VER_PROCS/MemPatch.tp
PROCEDURE PARAGRAPHS VERIFIED: 4.7
CEI PARAGRAPHS VERIFIED: 3.7.5.1-3
SOFTWARE VERSION: Flight 5.0 (Internal version 11)
IPCL VERSION: N/A
HARDWARE CONFIGURATION: BEP 1E, FEP 1E on Cypress

HOST: cypress (sun4/sparc/80715546)

TEST CONDUCTOR:

Royce Buehler
MIT-CSR
NE80-6017
(617)253-9766

RCS STATUS: Version 1.0 of pv47.proc.

DESCRIPTION:

This test verifies that code in the ACIS Front End Processors can be successfully patched. This is the fourth of four verification reports for the BEP/FEP Memory Patch verification procedure.

The Step numbers in the detailed results correspond to the step numbers in the attached script file pv44.proc. (Steps have been added to those listed in the verification procedure, both to take advantage of additional verifiers and to cover the case when special patches are needed to test on the engineering unit. No steps have been dropped from the verification procedure list.)

SUMMARY OF TEST RESULTS: PASSED all.

DETAILED TEST RESULTS:

filterClient -h cypress | psci -a -v -l ../t1m/feppatchr

Step 1. Received:

bepStartupMessage 0 bepTickCounter=3 version=11

Step 5 (Warm boot). Version # changed as expected. Received:

bepStartupMessage 0 bepTickCounter=0 version=0xffff

Step 9. PASS.

file ../tlm/feppatchr.dumpedPatches.3.txt contained 636 bytes.

Step 14. PASS.

file ../tlm/feppatchr.1.science.log read, at the end:

```
scienceReport[1257,0] = {
  telemetryLength      = 12
  formatTag            = 15 # TTAG_SCI_REPORT
  sequenceNumber       = 12
  runStartTime         = 0xffffffff
  parameterBlockId    = 0
  windowBlockId       = 0xffffffff
  biasStartTime        = 0
  biasParameterId     = 0
  exposuresProduced   = 0
  exposuresSent        = 0
  biasErrorCount       = 0
  fepErrorCodes        = 0 5 0 0 0 0
  ccdErrorFlags        = 1 0 1 1 1 1
  deaInterfaceErrorFlag = 0
  terminationCode      = 5 # SMTERM_FEP_BIAS_START
}
```

-- showing the correct termination code and the expected fep error code '5'.

Step 16. PASS

Feeding the file feppatchr.fepReadReply.2.dat through od -h gave the following result:

```
0000000 0000 face
0000004
```

Step 22. PASS

file ../tlm/feppatchr.2.science.log read, at the end:

```
scienceReport[1847,1] = {
  telemetryLength      = 12
  formatTag            = 15 # TTAG_SCI_REPORT
  sequenceNumber       = 6
  runStartTime         = 0xffffffff
  parameterBlockId    = 0
  windowBlockId       = 0xffffffff
  biasStartTime        = 0x4831a1ed
  biasParameterId     = 0
  exposuresProduced   = 0
  exposuresSent        = 0
}
```

```
biasErrorCount      = 0
fepErrorCodes       = 0 0 0 0 0 0
ccdErrorFlags       = 1 0 1 1 1 1
deaInterfaceErrorFlag = 0
terminationCode     = 2 # SMTERM_BIASDONE
}
```

-- Showing the correct termination code, and no FEP errors.

Element:
ACIS

Requirement Number:
3.7.5.1-3

Verification Item:
3.7.5.1-3

Requirement Title:
General

Compliance Data/Location:
MA-260/36.01510.233/Bldg 4200 Rm 522

Verification Method
Test

Comments:
DMS - N/A; SW Test

IN&C - N/A: S/W Test

**AXAF-I.
Verification
Requirement
Compliance Data
Submittal**

Evaluators:
SW, IN&C, DMS

Type of Review:
 Verification Item Closure
 Requirement Closure

Status
Open 6/12/97

Recommendation: <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove <input checked="" type="checkbox"/> Other (Explain)	Action Required for Closure: This verification activity cannot be closed until test 36-57303.08 has been completed.
--	---

MSFC Evaluator: Rhonda Schrimsher	Date: 6/24/97	Organization: EB43	Phone Number: 544-3746
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Disposition: <input type="checkbox"/> Approve <input checked="" type="checkbox"/> Disapprove <input type="checkbox"/> Other (Explain)	Action Required for Closure: Complete above test and submit test completion evidence
---	--

Chief Engineer: Anthony R. Lavoie	Date: 6/26/97
---	-------------------------

ACIS Verification Summary Report

36-01510.233


Specification:	ACIS Contract End Item Specification
Requirement Number/Title:	3.7.5.1 General (VRSD 3.7.5.1-3)
Requirement Statement:	On-orbit changes capability and memory dump capability shall be provided.
Verification Method:	Test and Demonstration
Procedure Number:	36-57301.01 Rev A and 36-57301.08 Rev A

Configuration:

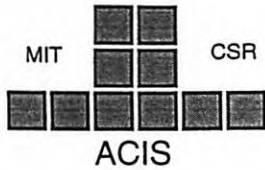
Cycle Time:

Verification Discussion/Results

See 36-57303.01 Rev A (BEP Memory Dump) and 36-57303.08 Rev A (Code Patching) Verification Reports.


ACIS Cognizant Engineer

6/6/57
Date



SDM10

SOFTWARE VERIFICATION REPORT SUMMARY

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

Title: **ACIS SW BEP Memory Verification Report**

Data Base Part Number:	36-57303.01	Date:	May 2nd, 1997
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Procedure Number:	36-57301.01	Procedure Name:	MemBep
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Report Number:	See Comments	Report/Script File Name:	MemBep-1
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Number of sub reports	Passed	8
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8

Number of sub reports	Failed	0
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0

Comments:

Report Numbers

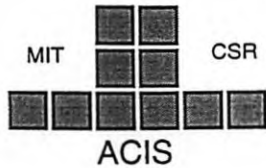
36-57303.010101 36-57303.010102 36-57303.0102
 36-57303.010301 36-57303.010302 36-57303.010401
 36-57303.010402 36-57303.0105

Test Deviations:

NONE

Cognizant Engineer:

Robert J. Blozie



SDM10

SOFTWARE VERIFICATION REPORT SUMMARY

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

Title: **ACIS SW Memory Patching**

Data Base Part Number: 36-57303.08

Date: March 11, 1997

Procedure Number: 36-57301.08 Rev A

Procedure Name: MemPatch

Report Number: See comments

Report/Script File Name: MemPatch-8

Number of sub reports Passed 3

Number of sub reports Failed 0

Comments:
Report Numbers:
36-57303.08.4.1 36-57303.08.4.3 36-57303.08.4.4

Test Deviations:
Test 2 has not yet been run.

Cognizant Engineer: Royce Buehler