

*J. Dunbar*  
DX

**CANCELLED** (3/26/69)

MIT/IL SOFTWARE ANOMALY REPORT

1.1 ORIGINATOR: W. OSTANEK	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 3/18/69	1.4 ORIGINATOR CONTRACT NO.	MIT REPORT NO. COM 9
1.5 DESCRIPTION OF ANOMALY:				PROGRAM COL 2 and 2A
				PROGRAM REVISION COM Rev 45 & 51

Permanent integration of state vectors without W-matrix integration is not restart proof. One interpretive instruction (an EXIT) is not protected such that if a restart occurs here the permanent state vector will not be updated.

**CANCELLED** Anomaly does not exist (3/26/69)

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1.6 DESCRIPTION OF RUN:  
Eyeball.

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**MIT ANALYSIS**

2.1 CAUSE:  
STATEFLG which causes the program to write into permanent state vector storage is cleared before a phase change.

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2.2 RECOGNITION:  
Possible large N49 display if restart during navigations.

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MISSION EFFECT:  
Possible erroneous state vector corrections in navigation; possible W-matrix problems due to non-synchronization of state vectors.

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2.4 AVOIDANCE PROCEDURE:  
None.

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2.5 RECOVERY PROCEDURE:  
Additional marks may be necessary to reestablish proper state vector.

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2.6 PROGRAM CORRECTION:  
Reset STATEFLG after phase change.

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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):  
Fix in post COLOSSUS 2A.

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2.8 RECOMMENDED RE-TESTING:  
Level 2 with restart.

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2.9 MIT/IL SIGNATURE:  
2.10 DATE:  
3/19/69

3.1 NASA DIRECTION:  
**CLOSED**

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4.1 CLOSING ACTION TAKEN:  
**CANCELLED**  
DELETE PROGRAM NOTE 3.4.1

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3.2 NASA/NSC SIGNATURE: <i>[Signature]</i>	3.3 ORGANIZATION: NASA/NSC/FIS	3.4 DATE: 4/10/69	4.2 SIGNATURE: <i>[Signature]</i>	4.3 ORGANIZATION: NASA/NSC/FIS	4.4 DATE: 4/10/69
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