

MIT/IL SOFTWARE ANOMALY REPORT

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MIT REPORT NO.
COM 2 - Rev 3
PROGRAM
Colossus 2
PROGRAM REVISION
COMANCHE 44

1.1 ORIGINATOR: M. HAMILTON	1.2 ORGANIZATION: MIT	1.3 DATE: 4/16/69	1.4 ORIGINATOR CONTROL NO.
1.5 DESCRIPTION OF ANOMALY:			

If a POODOO abort alarms (1206, 1210, 1302, 1501, 1502, 1521, 1204, 1103, 430, 607, 610) takes place during permanent integration, STATEFLG, and NODOFLAG are not reset with the result that subsequent integrations may cause difficulty.

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1.6 DESCRIPTION OF RUN: EYE-BALL

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- MIT ANALYSIS -

2.1 CAUSE: Coding error: if a POODOO abort occurs during POO integration the NODOFLAG will remain set. For other permanent integrations (e.g. mark incorporation) the STATEFLG will remain set.

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2.2 RECOGNITION: If occurring during POO then all program requests (V37) except for POO (and V96) are locked out. If STATEFLG remains set then any integration (e.g. P21) will behave as a permanent integration & clobber the state vector.
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2.3 MISSION EFFECT: Mandatory work around if POODOO abort occurs: (See 2.5)
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2.4 AVOIDANCE PROCEDURE: None.

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2.5 RECOVERY PROCEDURE: If a POODOO abort occurs select POO.

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2.6 PROGRAM CORRECTION: Add coding to reset STATEFLG and NODOFLAG in POODOO logic.

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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc): Fix for COLOSSUS 2A. Use work around in COLOSSUS 1A and COLOSSUS 2.

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2.8 RECOMMENDED RE-TESTING: Force POODOO abort during integration.	2.9 MIT/IL SIGNATURE: <i>[Signature]</i>	2.10 DATE: 4/16/69
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3.1 NASA DIRECTION: Fix for Colossus 2A
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4.1 CLOSING ACTION TAKEN: MIT will fix for COLOSSUS 2A. REWRITE PROGRAM NOTE 3.1.1 SEC A. CLOSED
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3.2 NASA/MSA SIGNATURE: <i>[Signature]</i>	3.3 ORGANIZATION: MIT/IL/MSA	3.4 DATE: 4/24/69	4.2 SIGNATURE: <i>[Signature]</i>	4.3 ORGANIZATION: MIT/IL/MSA	4.4 DATE: 4/27/69
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1.1 ORIGINATOR: M. HAMILTON	1.2 ORGANIZATION: MIT	1.3 DATE: 2/24/69	1.4 ORIGINATOR CONTROL NO.	REPORT TO: COM 2	PROGRAM: COLOSSUS 2	REVISION: COMANCHE 44
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2.5 Recovery Procedure: (Cont.)

Reset REINTEFLG as follows:

V25 N07E
106E
100E
E

Reset STATEFLG as follows:

V25 N07E
77E
20E
E

The n select P00 since Poo will clear the NODOFLAG.