

NA

MIT/IL SOFTWARE ANOMALY REPORT

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

1.1 ORIGINATOR: T. CROCKER	1.2 ORGANIZATION: MIT	1.3 DATE: 2/20/69	1.4 ORIGINATOR CONTROL NO.
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1.5 DESCRIPTION OF ANOMALY:
 In lunar environment, velocity and flight path angle are incorrect in N73 associated with P21 (see PCR 730).

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1.6 DESCRIPTION OF RUN:
 Level 3 Lunar orbit, P21 test

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- MIT ANALYSIS -

2.1 CAUSE: In lunar environment, coding uses velocity scaled at 2^5 m/sec instead of 2^7 . Velocity appears 4x actual value. Flight path angle is smaller than time value.

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2.2 RECOGNITION:
 Velocity too great for lunar trajectory conditions.

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2.3 MISSION EFFECT:
 None.

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2.4 AVOIDANCE PROCEDURE:
 None

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2.5 RECOVERY PROCEDURE:
 Divide velocity result by 4 for true value. Multiply flight path angle by 4 (for small angles $\sim 5^\circ$).

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2.6 PROGRAM CORRECTION:
 Use scaling of 2^7 m/sec for this display.

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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):
 Fix for Colossus 2A.

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2.8 RECOMMENDED RE-TESTING:
 Level 3 test

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2.9 MIT/IL SIGNATURE: <i>[Signature]</i>	2.10 DATE: 2/20/69
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3.1 NASA DIRECTION:
Fix for Colossus 2A

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4.1 CLOSING ACTION TAKEN:
CLOSED
 MIT will fix for Colossus 2A.
 1.4.7 SEE ALSO PROGRAM NOTE 1.4.7 SECTION A.

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3.2 NASA/MSFC SIGNATURE: <i>[Signature]</i>	3.3 ORGANIZATION: NASA/MSFC/FSS	3.4 DATE: 2/17/69	4.2 SIGNATURE: <i>[Signature]</i>	4.3 ORGANIZATION: NASA/MSFC/FST	4.4 DATE: 3/17/69
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