

MIT/IL SOFTWARE ANOMALY REPORT

MSC REPORT NO. L-1C-02
PROGRAM LUMINARY
PROGRAM REVISION 130

1.1 ORIGINATOR: B. McCOY	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 12/3/69	1.4 ORIGINATOR CONTROL NO.
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1.5 DESCRIPTION OF ANOMALY:

During the initialization pass for an "Early Abort" from PDI, locations of a VAC area are destroyed.

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1.6 DESCRIPTION OF RUN:

Early abort run: Keyed V82 in after INSERTION found that a VAC area had been destroyed and transfer control was made to undesirable location.

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- MIT ANALYSIS -

2.1 CAUSE: In routine GOABORT, a branch is made to the present location +3 instead of +4. This causes an Interpretive address to be used as an instruction which is interpreted to be STORE, 1. This stores a DP number into portions of a pre-indeterminable VAC area.

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2.2 RECOGNITION:

See 1.6.

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2.3 MISSION EFFECT:

Possibly makes an abort on the PGNCS unsafe.

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2.4 AVOIDANCE PROCEDURE:

None

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2.5 RECOVERY PROCEDURE:

If abnormality occurs, go to AGS.

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2.6 PROGRAM CORRECTION:

Change instruction to BRANCH to +4.

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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):

Fix and re-manufacture ropes for 1C.

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2.8 RECOMMENDED RE-TESTING:

Trace the coding involved in branching for early aborts.

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2.9 MIT/IL SIGNATURE: <i>Russell H. Larson</i>	2.10 DATE: 12-4
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3.1 NASA DIRECTION:

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4.1 CLOSING ACTION TAKEN:

LUMINARY 1C re-released at Rev 131.

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3.2 NASA/MSC SIGNATURE:	3.3 ORGANIZATION:	3.4 DATE:	4.2 SIGNATURE:	4.3 ORGANIZATION:	4.4 DATE:
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