

# MIT/IL SOFTWARE ANOMALY REPORT

MIT REPORT NO. <span style="float: right;">LNY 36</span>
PROGRAM <b>LUMINARY</b>
PROGRAM REVISION <b>69</b>

1.1 ORIGINATOR: <b>P. ADLER</b>	1.2 ORGANIZATION: <b>MIT/IL</b>	1.3 DATE: <b>1/31/69</b>	1.4 ORIGINATOR CONTROL NO.
1.5 DESCRIPTION OF ANOMALY:  <b>Overflow occurred during LOS calculation in R29DODES.</b>			
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1.6 DESCRIPTION OF RUN:  <b>LUMINARY Level IV L 4.6</b>			
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<b>- MIT ANALYSIS -</b>			
2.1 CAUSE:  <b>Subroutines SPSIN and SPCOS are called during R29 with interrupts allowed; GPMATRIX, called during T4RUPT also calls these routines.</b>			
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2.2 RECOGNITION:  <b>None</b>			
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2.3 MISSION EFFECT:  <b>R29 may not lock on.</b>			
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2.4 AVOIDANCE PROCEDURE:  <b>None</b>			
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2.5 RECOVERY PROCEDURE:  <b>None</b>			
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2.6 PROGRAM CORRECTION:  <b>Inhibit interrupts before calling SPSIN and SPCOS in R29.</b>			
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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):  <b>Fix for LUMINARY 1A.</b>			
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2.8 RECOMMENDED RE-TESTING:  <b>Special R29 test.</b>			
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3.1 NASA DIRECTION:		4.1 CLOSING ACTION TAKEN:  <b>Fix in LUMINARY 1A</b> <i>George W. Cherry</i>	
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3.2 NASA/MSFC SIGNATURE:	3.3 ORGANIZATION:	3.4 DATE:	4.2 SIGNATURE:
3.5 ORGANIZATION:	4.3 ORGANIZATION:	4.4 DATE:	