Part Two:
64 Found Bits (8 poems made of 8 octets of erasure)
**ANGLFIND**

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* PICK UP CURRENT CDU ANGLES
* STORE THE INITIAL S/C ANGLES
* COMPUTE THE TRANSFORMATION FROM $2 \text{MIS} \text{TRANSPOSE}$
* COMPUTE THE TRANSFORMATION FROM FINAL TO STABLE
* TMIS = TRANSPOSE(MIS) SCALED BY 2
* PROCEED ACCORDING TO ITS MAGNITUDE

# CALCULATE

DLOAD DAD CHECKMAX EXIT

INHINT
CS ONE CSK

TS HOLDFLAG # NOGO WILL STOP ANY RATE AND SET UP

TC LOADCDUD # GOOD RETURN

TCF NOGO CHECKMAX DLOAD DSU

AM MAXANG

BPL VLOAD ALTCALC * UNIT

COFSKEW # COFSKEW
STORECOF # COF IS THE MANEUVER AXIS

SEE IF MANEUVER GOES THRU I AM GREATER THAN

CALCULATE ROOT $\text{SCALE} \text{B} \text{4}$

$\text{ROOT2}$

Determine LARGEST

ADJUST ACCORDINGLY

64 FOUND BITS
METHOD1  LOCSKIRT

METHOD2

OCSKIRT

SIGN OF UZ OPPOSITE

GOTO  CSKIRT

METHOD3  MATRIX OPERATIONS MULTIPLIES 2 3x3 MATRICES
AND LEAVES
DEFINE SKIRT

PUSH

GOTO

MATRIX

* ENTER WITH MATRIX IN PD LIST

RETURN WITH

MINANG  DEC  .00069375

MAXANG  DEC  .472222

LOCK CONSTANTS

* NGL = BUFFER ANGLE (TO AVOID DIVISIONS BY ZERO) = 2 DEGREES

SD      DEC  .433015  # = SIN(D)  $2

K3S1    DEC  .86603  # = SIN(D)  $2

K4      DEC  -.25    # = -COS(D)  $2

K4SQ    DEC  .125    # = COS(D)COS(D)  $2

SNGLCD  DEC  .008725 # = SIN(NGL)COS(D)  $2

CNGL    DEC  .499695 # = COS(NGL)  $2

READCDUK  INHINT  # LOAD T(MPAC) WITH THE CURRENT CDU ANGLES

TO COMPUTE DIRECTION SET STORE LOOPS LOAD LOGIC THE SIN
WITH THE SIN SCALED STA R PUSH PUSH UP EQUALS
WHERE U IS A UNIT A IS THE ANGLE
CONTAINS THE TERMS PUSH DAD
CAN BE WRITTEN AS*** THE COMPLEMENT
WILL BE LEFT WHERE
QUADRANT TERMINATING
ZEROERROR  # GOODEND ENDOFJOB