C

\$ \$

MUR1 BANK 2 - MUCH HIT STATUS BANK. FOR EACH HIT A 2-BYTE WORD PACKED AS FOLLOWS..

```
2
                 BIT... 15 14 13 12 11 10
HLUN 0 0 0 0 0 0
                       N 0 0 0 0 0 0 0 0 A B C D X Y Z T L

...THIS BIT NUMBERING RUNS OPPOSITE TO IBM CONVENTION

I.E. MACHINE SEES "L" FLAG IN BIT NO. 15.
 STRUCTURE OF HLUN O
           (BIT) (TRUTH VALUE)
                                 IF LONGITUDINAL COORDINATE IS "INVALID"
                           0
 HLUN
                                                        COORDINATE IS
                                                                           "INVALID"
                                     TRANSVERSE
                                 IF
                                                                             . VALID.
 HLUN
                                                                       15
                                                        COORDINATE
                                 IF TRANSVERSE
                                                      COORDS. BAD
                                       ---> BOTH COORDS. BAD
---> LONG. COORD OK ( TRANS. COORD. BAD)
---> TRANS COORD OK ( LONG. COORD. BAD)
                               4)=.0
          (I.E. HOD(HLUN.
                                 ==
                                    1
                                 == 1
                                      ---> ALL OK
                                          COORDINATE IS "INVALID"
                                 IF Z
 HLUN
                                          COORDINATE IS "INVALID"
 HLUM
                                                               "VALID"
                                          COORDINATE IS
                                  IF
                            1
                                          COORDINATE IS
                                                              · INVAL ID ·
                                  1F
 HLUN
                                                                . VALID.
                                          COORDINATE IS NORMAL COORDINATE IS EITHER DRIFT OR LONG.
                                  TF Z
                            O
 HLUN
                                     Z
                                  IF
                                           COORDINATE IS NORMAL
COORDINATE IS EITHER DRIFT OR LONG.
 HLUN
                                  IF
                            1
                                           COORDINATE IS NORMAL COORDINATE IS EITHER DRIFT OR LONG.
                                  IF X
                       -
                             0
# HLUN
                                  IF X
                            1.
                                  IF HIT I HAS BEEN LOST (BECAUSE OF
                                  IF ALL OK
                                   BIT 8 FLAG IS ONLY MEANINGFUL FOR HITL
```

LONG. COURD. THE 1°ST SET BITCOF 5.6.7) IS ALWAYS THAT FOR

TE: DNE CAN USE TBIT. DNE OF THE FORTRAN H SPECIAL FUNCTIONS IN THE INVOKED BY THE DFTION XL. BUT NOTE THAT THE BIT NUMBERING IN TBIT IS THE OTHER WAY ROUND. E.G. NOTE: TBIT (HLUN(IHIT):14) IS TRUE IF DRIFT COORDINATE IS OK:
TBIT (HLUN(IHIT):15) IS TRUE IF LONGITUDINAL COORDINATE IS OK:
AN EXAMPLE FROM FUFFLY SETS THE LOGICAL VARIABLE BADL AS FOLLOWS:
BADL=:NOT:TBIT (HLUN(IHIT):15)