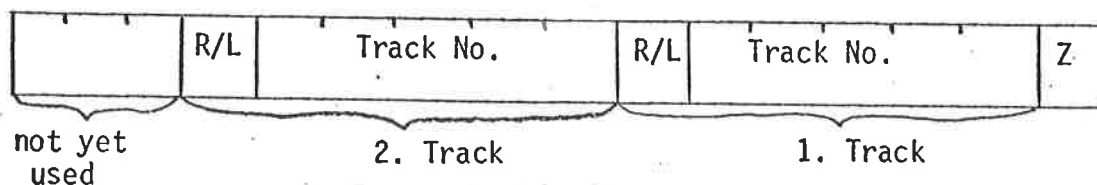


Hit Label Bank created by PATREC

- Name of the bank : 'JHTL'
- Pointer to the bank : IDATA(69) in COMMON / BCS /
- Contents of the bank :

One Integer*2 word for each hit in the same order as the hits in the bank 'JETC'



$$Z = \begin{cases} 1 & \text{if } z - \text{coordinate is good} \\ 0 & \text{if } z - \text{coordinate is bad (overlapping tracks)} \end{cases}$$

$$R/L = \begin{cases} 1 & \text{if right solution is selected} \\ 0 & \text{if left solution is selected} \end{cases}$$

Track No. and R/L-bit of the second track is only set if the hit corresponds to two different tracks (at a kink or at a crossing point of tracks).

JADE Computer Note No. 21

Hit Label Bank created by PATREC

- Name of the bank : 'JHTL'
- Contents of the bank :

- (1) Bank descriptor (I4)
- (2) Two Integer*2 word for each hit in the same order as the hits in the bank 'JETC'

unused	B2	B1	R/L	Track No.	Z	(for the first track)
--------	----	----	-----	-----------	---	-----------------------

$$Z = \begin{cases} 1 & \text{if z-coordinate is good} \\ 0 & \text{if z-coordinate is bad (overlapping tracks)} \end{cases}$$

$$R/L = \begin{cases} 1 & \text{if right solution is selected} \\ 0 & \text{if left solution is selected} \end{cases}$$

The second word is filled in the same way if the hit corresponds also to a second track.

- B1 = 1 : hit is in bad agreement with fitted curve
- B2 = 1 : hit has been correlated with track by pattern recognition program, but it has been excluded from the fit

Convention : If a hit corresponds to two tracks and if it is in bad agreement only with one of the fits, the bad correlation is eliminated.

- In order to avoid unnecessary recomputation of old data, a subroutine EXJHTL (IERR) has been provided, which converts the old format into a new one. People using the SUPERVISOR will have this routine been called automatically.

(IERR = 0 if not enough space in /BCS/ available).

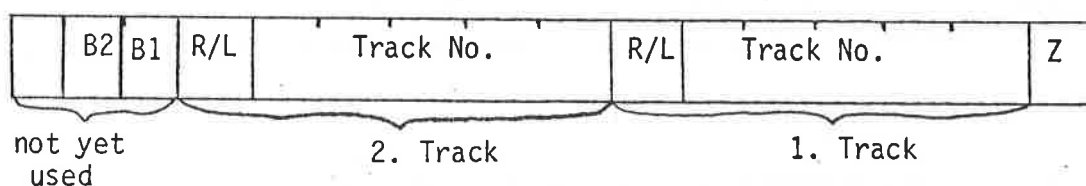
7.3.1979

P. Steffen

(amended 17.5.79)

Hit Label Bank created by PATREC

- Name of the bank : 'JHTL'
- Pointer to the bank : IDATA(69) in COMMON / BCS /
- Contents of the bank :
Bank descriptor (I4),
One Integer*2 word for each hit in the same order as the hits in the bank 'JETC'



$$Z = \begin{cases} 1 & \text{if } z - \text{coordinate is good} \\ 0 & \text{if } z - \text{coordinate is bad (overlapping tracks)} \end{cases}$$

not yet checked?

$$R/L = \begin{cases} 1 & \text{if right solution is selected} \\ 0 & \text{if left solution is selected} \end{cases}$$

*(high ϕ
low ϕ)*

Track No. and R/L-bit of the second track is only set if the hit corresponds to two different tracks (at a kink or at a crossing point of tracks).

B1 = 1 : hit is in bad agreement with fitted curve

B2 = 1 : hit has been correlated with track by pattern recognition program, but it has been excluded from the fit

Convention : If a hit corresponds to two tracks and if it is in bad agreement only with one of the fits, the bad correlation is eliminated.

0 0
1 0
0 1
1 1

*Good agreement, in fit
excluded from fit, but in good agreement.
in fit but bad agreement
bad agreement, excluded*

JADE COMPUTER NOTE 21

THIS IS JADEPR.TEXT(CPNOT21)

HIT LABEL BANK CREATED BY PATREC PROGRAM

STATUS 14/01/82

(P. STEFFEN)

REPLACEMENT OF OLD JADE COMPUTER NOTE 21 FROM 7/03/79

- BANK NAME: 'JHTL'
- BANK NUMBER: SAME NUMBER AS CORRESPONDING 'PATR'-BANK
- BANK CONTENTS (32 BIT WORDS):
 1. BANK DESCRIPTOR WORD
 2. LABEL FOR 1. HIT IN 'JETC'-BANK
 3. LABEL FOR 2. HIT IN 'JETC'-BANK
 4. LABEL FOR 3. HIT IN 'JETC'-BANK
 - :
- THE LABEL CONTAINS INFORMATION TO WHICH TRACKS THE HIT BELONGS TO (IBM CONVENTION: BIT 0 = HIGHEST ORDER BIT, 31 = LOWEST ORDER BIT)
 - BIT 0- 4 : DISTANCE(HIT-FITTED TRACK))
IN UNITS OF 0.2 MM)
 - BIT 5- 6 : UNUSED)
 - BIT 7 : 1/0 IF HIT ON RIGHT/LEFT SIDE) 1. TRACK
OF WIRE PLANE)
 - BIT 8-14 : TRACK NUMBER TO WHICH)
HIT CORRESPONDS IN 'PATR'-BANK)
 - BIT 15 : 1/0 IF Z-COORDINATE IS GOOD/BAD)
 - BIT 16-20 : DISTANCE(HIT-FITTED TRACK))
IN UNITS OF 0.2 MM)
 - BIT 21-22 : UNUSED)
 - BIT 23 : 1/0 IF HIT ON RIGHT/LEFT SIDE) 2. TRACK
OF WIRE PLANE)
 - BIT 24-30 : TRACK NUMBER TO WHICH)
HIT CORRESPONDS IN 'PATR'-BANK)
 - BIT 31 : 1/0 IF Z-COORDINATE IS GOOD/BAD)

INFORMATION FOR 2. TRACK IS ONLY FILLED IF HIT CORRESPONDS TO 2 TRACKS (E.G. AT KINK OR CROSSING POINT OF TRACKS)

