JADE - Computer Note No. 62
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JADE REFORMAT PROGRAM

The JADE experimental data coming from the NORD 10/50 computer are written to raw data tapes (F22YEN.JADE.EXDATA07.GO....V00)

I. Reform step

The raw data serve as input to the reformatting step, where BOS banks are rearranged and put into proper format.

The REFORM program produces the following output data sets :

i. F11LH0.JDATA08. REFORM.GO....V00
   contains reformatted events

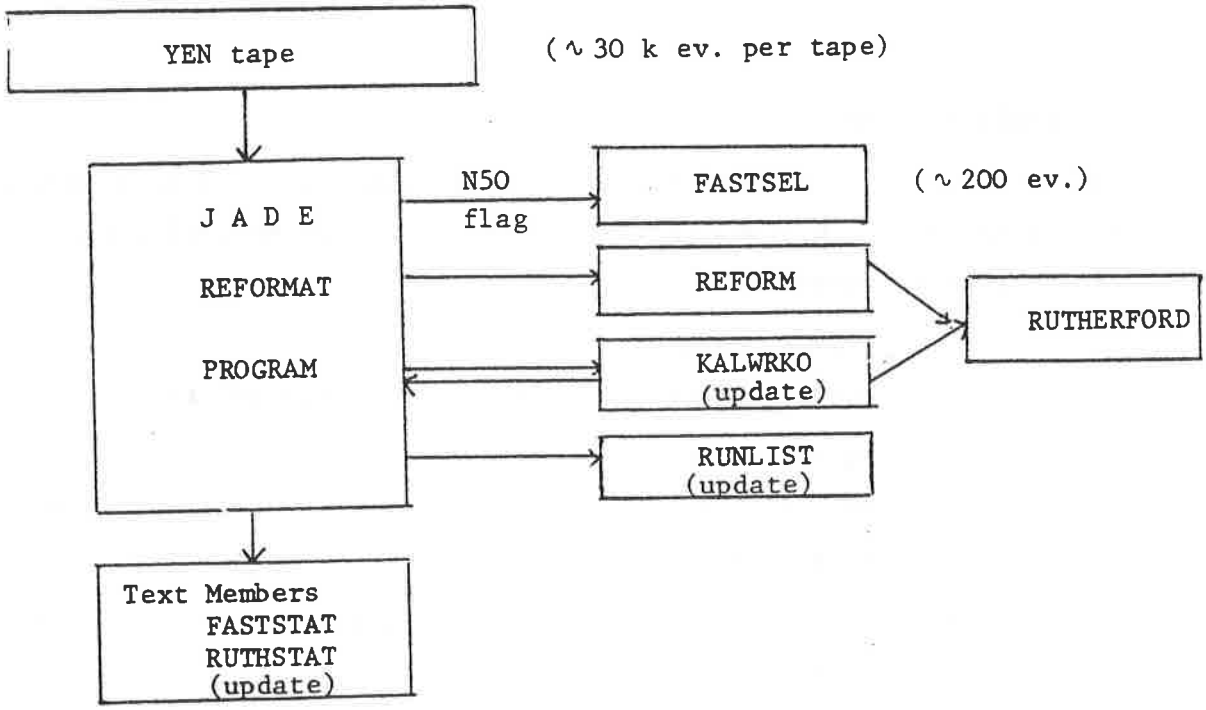
ii. F11LH0.KALWRK0
   contains updated calibration file (bad lead glass blocks)

iii. F11LH0.DSKTI001
   contains updated runlist

iv. F11BEK.FASTSEL.DS...
   contains events flagged by the N50

v. Rutherford tape
   contains a copy of REFORM and KALWRK0

vi. The text members FASTSTAT and RUTHSTAT on the library JADEOL.REFORM.S. are updated.



Any member of the JADE group should be able to submit the program during the shifts with the help of the NEWLIB CLIST facility. For this purpose a new identifier and password have been introduced :

Identifier : JADEOL
Password : JADE

The names of the source and load libraries are :

PS : REFORM.S
PL : REFORM.L

The program is started by entering the name of the CLIST member in parentheses :

(#REFORM)

The CLIST is self-explanatory.

The two text members FASTSTAT and RUTHSTAT are automatically listed on the screen. With the help of these listings the user should select the number of the next YEN tape and REFORM tape which will be processed by the REFORM-job. The RUTHSTAT text member gives the numbers of free Rutherford tapes from which the user has to chose one.

After job submission the text members are updated.

The CLIST may be terminated at any stage before the actual submission of the REFORM job. The last chance of aborting occurs after the input of 'SUB' when the user is asked whether he really wants to submit the job. After abortion the CLIST may be started again by typing (#REFORM) in the command field. Aborting the CLIST has no further consequences.

II. Analysis step

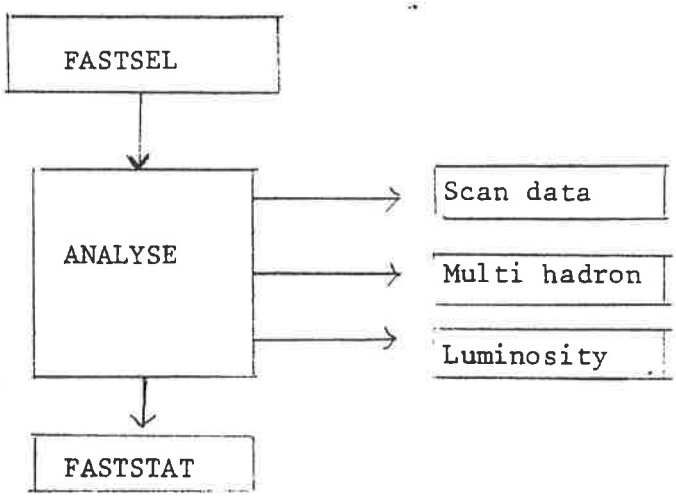
The selected data on the FASTSEL-files are analyzed by a program written by M. Minowa, which includes pattern recognition. The ANALYSE program produces the following output files :

i. F22MIN. MUHA.DS...
this file contains clean multihadron events

ii. F22MIN. SCAN.DS...
this file contains multihadron candidates, which require visual inspection

iii. A luminosity summary file is updated

../...



Like for the REFORM-step the analysis program should be submitted by JADE-members on shift via the self-explanatory CLIST #ANALYSE on JADEOL.REFORM.S. The CLIST is started by typing

(#ANALYSE)

into the command field. The user is prompted for the number of the FASTSEL-file, which should be processed. The file number can be inferred from a listing of the text member FASTSTAT, which will appear on the screen. The number of the FASTSEL-file is automatically transferred to the output files SCAN and MUHA so that there is a one to one correspondence of file numbers.

Like in the case of the REFORM step, the CLIST may be aborted without further consequences latest after the 'SUB' command, when the user is asked whether he really wants to submit the analysis job.

Note:

Both CLIST's contain LDS-commands in order to find out whether data sets exist or not. If a data set does not exist the following line will appear on the screen :

*** ERROR *** DSN NOT IN CATALOG

The output 'ERROR' is an IBM-feature. It is irrelevant in the present context.