Magn

JADE-Computer-Note 38

- M. Goddard
- J. Olsson
- P. Steffen
- 9.5.80

Cuts of first Data Reduction (used from 1.3.80 on)

STAGE 1 (after reading the event):

- reject pulser event (first 13 events)
- reject events that fail the 'TRIGGER CHECK' (see below):
 two different triggers are considered further on:
 energy trigger (T1 accept) and track trigger (T2, T3 accept)
- reject energy trigger events with low lead glass energy:
 LGCUT, TAGFLG
- reject track trigger events with no hits in the jet chamber
- Stage 2 (after calibration of jet chamber data and calculation of the z-vertex):
 - accept all remaining energy trigger events
 - reject track trigger events for which no vertex has been found
 - reject track trigger events for which the found vertex is more than $350\ \mathrm{mm}$ from the origin
- Stage 3 (after pattern recognition (fast version) has been performed)
 Only track trigger events are considered, which passed stage 2 cuts.
 - reject events without PATR-bank
 - reject events with no tracks tagging events: accept events with \geqslant 1 track of \geqslant 200 MeV and of
 - \cdot > 12 hits originating from |z| < 300 mm
 - reject all other tagging events

events with only tracks of \leq 12 hits in the r-z-projection:

- accept events with tracks of > 20 hits in the $r\text{-}\phi\text{-}projection$
- reject all other events

TAGFLG:

Check lead glass energy for tagging events with T1 accept.

- Events with double tag are accepted if the lead glass energy of cylinder and endcaps is $> 0.3 \,\, \text{GeV}$
- Events with a single tag are accepted if the lead glass energy of cylinder and opposite end cap are $> 0.1~{\rm GeV}$, and if the total lead glass energy is $> 0.3~{\rm GeV}$.

Felop

JADE- Computer-Note No. 39 June 2nd, 1980 W. Bartel

Convention about the use of computer time.

1) Every authorized user of the IBM computer using priority time from the contingent no. 10622622 is allowed to use

```
10 Min. of medium priority time per day
45 sec of high " " " "
```

In case more time is needed, the coordinator must be asked.

In case there is priority time left in the evening (after $\sim 20^{00}$) the available time may be shared between the users who are still active.

- 2) Data reduction jobs do not fall under these restrictions.
- 3) In order to save priority time, the time parameter option in the job card should be used as shown in the following examples:

```
// ... JOB CLASS = K, TIME = 2
or
// ... JOB CLASS = E, TIME = (, 10)
```

A time parameter card on the EXEC card only limits the step time however it does not limit the time by which the JADE contingent is reduced.

More details about the priority scheme and the use of computer time will be issued in the computer note 39a.

Page 1 * * * * * * * * * *** *** * * * * *** **** bjcn39a.text.txt ď 3 THE CPU-TIME CONTINGENT AND ITS USAGE TO BE READ BY EVERY JADE COMPUTER USER IMPORTANT 国 LON IMPORTANT COMPUTER IMPORTANT Aug 7 1997 15:14:45 JADE **** **** ****

03.06.8000004200 W.BARTEL, J.OLSSON, P.STEFFEN, A.WAGNER

THE CPU-TIME AT THE DESY COMPUTER CENTRUM IS ADMINISTERED IN A CONTINGENT SYSTEM: A CERTAIN FRACTION OF THE AVAILABLE CARACITY IS TREATED AS PRIORITY TIME AND THIS FRACTION IS DIVIDED UP AMONG THE VARIOUS GROUPS. THUS EACH GROUP HAS A CERTAIN AMOUNT OF PRIORITY TIME AVAILABLE AND IT IS THE DUPPOSE OF THIS NOTE TO CLARIFY THE RULES, PARTICULARLY TO NEWCOMERS TO JADE, TO INSURE EFFICIENT USAGE THE ALLOTED TIME.

^<<<----- PRIORITY CLASSES THERE ARE 3 CLASSES OF PRIORITY:

MEDIUM HIGH ONLY THE MEDIUM AND HIGH PRIORITY IS SUBJECT TO CONTINGENTING. THE ACTUAL AMOUNT AVAILABLE TO JADE AT ANY TIME CAN BE OBTAINED VIA THE TSO/NEWLIB COMMAND:

--- KONT COMMAND

AS AN EXAMPLE, THIS COMMAND WILL RETURN THE INFORMATION:

23 MIN. HIGH. MIN. CPU, INCL. 212 XXXXXXX HAS ACCOUNT NO

OF WHICH 23 MAY THIS MEANS THAT 212 MINUTES MEDIUM PRIORITY IS LEFT, OF WHICH 23 N BE USED AS HIGH PRIORITY. THE CONTINGENT IS UPDATED SHORTLY AFTER MIDNIGHT, ON A 24 HOUR BASIS.

SUBMIT TIME

THE CONTINGENT SYSTEM IS BASED ON THE "SUBMIT TIME", I.E. THE TIME WHICH IS ESTIMATED FOR THE JOB AT THE TIME OF SUBMIT. THUS A LONG RUNNER THAT FAILS IMMEDIATELY AT EXECUTION WILL STILL HAVE ALL ITS SPECIFIED TIME SUBTRACTED.

JOBS SUBMITTED WITH LOW PRIORITY DO NOT AFFECT THE CONTINGENT.
JOBS THAT FAIL BY JCL-ERROR IMMEDIATELY AFTER SUBMISSION. IN THE
INTERPRETER STEP. ALSO DO NOT AFFECT THE ONTINGENT. JOBS THAT HAVE
BEEN ACCEPTED BY THE INTERPRETER AND HAVE ENTERED THE JOB QUEUE, DO
AFFECT THE CONTINGENT, SVEN IF THEY ARE CANCELLED AFTERWARDS.
TSO SESSIONS DO NOT SUBTRACT FROM THE ACCOUNT.

EXAMPLES

SUBMITTING A 4 MINUTE JOB WITH MEDIUM PRIORITY CHANGES THE ACCOUNT M 212 MEDIUM, 14 HIGH TO 208 MEDIUM, 14 HIGH FROM 17 MEDIUM, 17 HIGH TO 13 MEDIUM, 13 HIGH FROM

PRIORITY CHANGES THE ACCOUNT HIGH 10 MEDIUM, MEDIUM, 208 HIGH 55 SUBMITTING A 4 MINUTE JOB WITH IN 212 MEDIUM, 14 HIGH FROM 17 MEDIUM, 17 HIGH FROM

BEFORE SUBMITTING JOBS, THE KONT COMMAND SHOULD ALWAYS BE CONSULTED.

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IF ONLY LITTLE TIME (< 100 MINUTES, SAY) REMAINS, ASK OTHER MEMBERS OF JADE IF THEY NEED IT BEFORE USING IT UP. IF IT IS STILL EARLY IN THE DAY (I.E. BEFORE 2000 HOURS) THE TIME MUST NORMALLY STILL BE SAVED FOR THE EVENING WORKERS.

--- JOB CLASSES

JOBS CAN BE SUBMITTED INTO DIFFERENT CLASSES, WITH DIFFERENT DEFAULT PRIORITIES AND DIFFERENT DEFAULT TIMES. IF PRIORITY AND TIME ARE NOT EXPLICITLY DECLARED, THE DEFAULTS AND THUS, A USER WHO SUBMITS JOBS WITHOUT PROPERLY DECLARING PRIORITY AND TIME, CAN DEALN THE ACCOUNT SEVERELY. THE VARIOUS CLASSES AND THEIR DEFAULTS ARE LISTED IN THE FOLLOWING TABLE:

MINUTES MINUTES MINUTES MINUTES DEFAULT TIME SECONDS DEFAULT PRIORITY MEDIUM MEDIUM MEDIUM LOW CLASS BAKHA

AAAA------ TIME PARAMETER THERE IS ONLY ONE WAY TO SPECIFY A NON-DEFAULT TIME, NAMELY ON THE JOBCARD. EXAMPLES:

JOB CLASS=K, MSGLEVEL=(0,0), TIME=(3,30) //JADEPR

JOB CLASS=K, MSGLEVEL=(0,0), TIME=3 //JADEPR JOBS HEADED BY THESE CARDS WOULD SUBTRACT 3 MINUTES, 30 SECS AND 3 MINUTES FROM THE ACCOUNT, RESPECTIVELY. THE SECONDS ARE NOT SEEN IN THE KONT COMMAND, BUT ARE PROPERLY ACCOUNTED FOR (GENERAL BELIEF). OBS: THMS SPECIFICATIONS IN THE GO-STEP ARE NOT CONSIDERED IN THE CONTINGENT SYSTEM. THUS A MEDIUM PRIORITY L-JOB MITH NO TIME PARAMETER IN THE JOBCARD BUT WITH GOTIME LIMITED TO 30 SECONDS WILL STILL SUBTRACT 16 MINUTES FROM THE ACCOUNT.

PRIORITY PARAMETER

THERE IS ONLY ONE WAY TO SPECIFY A NON-DEFAULT PRIORITY, NAMELY IN THE *MAIN CARD. THIS FOLLOWS IMMEDIATELY AFTER THE JOB-CARD. EXAMPLES:

//*MAIN RELPRI=LOW //*MAIN RELPRI=MED,ORG=EXT //*MAIN ORG=EXT,LINES=(2),RELPRI=HIG

AAAA --- RESERVED TIME --- THE PRIORITY TIME AVAILABLE IS CLEARLY NOT ENOUGH FOR ALL PURDOSES. OF THE 450-500 MINUTES DAILY SUBMIT TIME, WHICH CONSTITUTES THE JADE FRACTION OF THE PRIORITY TIME, SOME 50 % HAS TO BE RESERVED FOR URGENT DATA PROCESSING AND ANALYSIS. THIS IS ALSO TRUE FOR THE 45 - 50 MINUTES OF HIGH PRIORITY.

URGENT DATA PROCESSING AND ANALYSIS ARE MAINLY THE FOLLOWING :

(MILITHADRON ANALYSIS) CALIBRATION LUMINOSITY REDUC1 REDUC2

USERS INVOLVED IN THESE STANDARD TASKS ARE

JADEPR, F11GOD, F11LHO, F11PST, F11OLS F22ORI, F22MIN, F22HWAG

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BEFORE USING UP LARGE REMAINING PARTS OF MEDIUM AND HIGH PRIORITY, IT IS GOOD PRACTISE TO ASK THESE USERS IF THEY NEED MORE TIME FOR THE MENTIONED PURPOSES.

AAAA------ PRIORITY TIME PER USER ---- WITH AN ESTIMATED NR OF 40 ACTIVE PROGRAMMERS IN THE JADE COLLABORATION, THE AVERAGE AMOUNT OF MEDIUM PRIORITY FALLING ON EACH USER CAN BE CALCULATED TO BE

INCLUDING 30-45 SECONDS OF HIGH PRIORITY MINUTES, 1 1 1

THIS IS NORMALLY ENOUGH FOR PROGRAM DEVELOPMENT

VVVV--

--- THE COORDINATOR --

FOR DATA PROCESSING, CONDENSATION ETC., CAREFUL PLANNING HAS TO BE DONE. FOR THIS PURPOSE, THE COORDINATION OF THE CPUTIME USAGE WITHIN THE JADE COLLABORATION IS HANDLED BY

(ALSO KNOWN AS THE OFFICER) THE COORDINATOR

THE COCRDINATOR IS CHOSEN FROM THE AUTHORIZED JADE COMPUTER USERS. THE WORK AS COORDINATOR IS PERFORMED ON A MONTHLY BASIS.

ANYBODY WHO PLANS LARGER USAGE OF PRIORITY TIME MUST CONSULT THE COORDINATOR

--- CPULIST COMMAND ------

THE ACTUAL USAGE OF SUBMIT TIME AS WELL AS EXECUTION TIME CAN BE OBTAINED BY THE NEWLLB COMMAND

THIS COMMAND WILL GIVE A LIST OF THE TIME USAGE OF EVERY USER FOR THE PREVIOUS DAY OR THE PREVIOUS MONTH. THUS MISUSE WILL SOONER OR ((CPULIST))

LATER BE DETECTED.

THE TIME BEFORE IMPORTANT CONFERENCES IS NORMALLY CHARACTERIZED BY DIFFICULT CONDITIONS AT THE DESY COMPUTER, WITH LITTLE OR NO CHANCE TO GET LOW PRIORITY JOBS THROUGH, ESPECIALLY IF THEY USE A TAPBERIVE. MORBOVER, CERTAIN PROJECTS WILL HAVE TO BE GIVEN HIGHER WEIGHT THAN SPECIALS, IN ORDER THAT IMPORTANT RESULTS WILL BE READY IN TIME. SPECIAL REQUIRED WILL BE ISSUED AS REQUIRED AND AFTER DISCUSSION, E.G. IN THE JADE MEETING. AAAA----- COOPERATION --

IN SUCH SITUATIONS THE JADE COLLABORATION WOULD BE SEVERELY HAMPERED BY A "WILD" USAGE OF THE PRIORITY TIME, ON A "FIRST COME, FIRST SERVED" BASIS. SIMILARLY, A SQUANDERING OF THE CONTINGENT TIME BY IGNORANCE CAN NOT BE TOLERYEDED.

TO ACHIEVE A SMOOTH CONEUTING WITHIN THE JADE COLLABORATION, WITHOUT SEVERE RESTRICTIONS FOR THE INDIVIDUAL, THE COOPERATION OF EVERYBODY IS NEEDED.

ON THE OTHER HAND, IF LARGE ANOUNTS OF SUBMIT TIME STILL REMAINS LATE IN THE EVENTING AND NOBODY ELSE IS AROUND TO USE IT, ONE SHOULD FEEL FREE TO MAKE SENSIBLE USE OF IT.

Page 3

Olman

JADE - Computer Note 40 W. Bartel 12.6.1980

Monte Carlo tracking through lead glass

The new lead glass tracking routine has the following features:

- 1. Better simulation of nuclear interactions in lead glass. $\pi^{\prime}s$ and $k^{\prime}s$ are treated the same.
- 2. Threshold of 300 MeV/c for Cerenkov light emission. 30% of the $\pi\mbox{'s}$ below 300 MeV/c deposit energy in the lead glass blocks.
- 3. No leakage for electromagnetic showers through the back faces of the lead glass blocks.
- 4. There is no smearing of γ ray energies. Smearing with $6\%/\sqrt{E}$ may be introduced by setting LFLAG(1) =.TRUE. in

LOGICAL * 1 LFLAG
COMMON/CFLAG/LFLAG(10)

5. There is no shower energy loss in the tank or in the coil.

The shower energy loss may be switched on by setting L FLAG(2) = . TRUE.

O Pagar

JADE COMPUTER NOTE 41

DOCUMENT PREPARATION USING THE NORD 10/S

H.E. Mills

25 June 1980

INTRODUCTION

Facilities exist to prepare documents using the RUNOFF programs on the Nord 10. The advantages of this method of document preparation are that the document is neatly formatted and is easy to correct and update. This note has been prepared via the EMBL RUNOFF program.

Two text formatting programs called RUNOFF are available. One comes from NORSK-DATA and the other from Mr. Herzog of EMBL at Heidelberg. It is recommended that the EMBL version is used and the descriptions in this note refer to it.

A program called RLISTER has been written to take the RUNOFF output file and to display it in a way suitable for several different types of terminal.

The input file required to produce this note is attached as appendix A and an example of commands used to drive RUNOFF and RLISTER is attached as appendix B.

PRODUCTION MECHANISM

Document preparation consists of first entering the text and any layout instructions into a NORD file from a normal terminal. RUNOFF is then used to process the file and produce an output file containing the formatted text. This can be read by the RLISTER program which will write it on your terminal in a way suitable for that device. Normally you will do this on a VDU or Tektronix terminal until you are satisfied with the layout and have removed all spelling mistakes. Finally you may log onto the high quality Diablo printer for a neat copy of your text - both continuous paper and separate sheets may be used. The Diablo should only be used in the final stages in order to preserve its daisy wheel and ribbon.

LAYOUT CONTROL

The user is referred to the EMBL documents called RUNOFF and RUNOFF Beginner's Manual. Basically commands for blank lines, new pages, centred text and so on are introduced by a full-stop (".") at the beginning of a line. A new paragraph is obtained by putting a space at the beginning of a line. The "group" facility is often useful to prevent RUNOFF splitting an item of text containing spaces such as in a formula. RUNOFF will not split complete words up. If you are entering your text in upper case only you will required several commands to swop between upper and lower case.

.C64 ON

AUAIJADE COMPUTER NOTE

AIDOCUMENT PREPARATION USING THE NORD 10~/5

H.E. MALILLS

25 /JUNE 1980

CALINTRODUCTION

NEATLY THIS METHOD OF DOCUMENT PREPARATION ARE THAT THE DOCUMENT IS VFACILITIES EXIST TO PREPARE DOCUMENTS USING THE ACRUNOFF PROGRAMS ON THE /NORD 10. /THE ADVANTAGES OF

FORMATTED AND IS EASY TO CORRECT AND UPDATE. /THIS NOTE HAS PREPARED VIA THE ACEMBL ACRUNOFF PROGRAM. /TWO TEXT FORMATTING PROGRAMS

CALLED ~CRUNOFF ARE AUAILABLE. /ONE COMES FROM ~C~GNORSK-DATA~E AND THE OTHER FROM /MR. /HERZOG OF ~CEMBL AT /HEIDELBERG. /IT IS RECOMMENDED ZONE COMES FROM ACAGNORSK-DATAAE AND THAT THE ACEMBL VERSION IS USED AND THE DESCRIPTIONS IN THIS NOTE REFER TO IT.

Case on 1-

Using upper

/A PROGRAM CALLED ACRLISTER HAS BEEN WRITTEN TO TAKE THE ACRUNOFF OUTPUT FILE AND TO DISPLAY IT IN A WAY SUITABLE FOR SEVERAL DIFFERENT

TYPES OF TERMINAL.

/THE INPUT FILE REQUIRED TO PRODUCE THIS NOTE IS ATTACHED AS APPENDIX /A AND AN EXAMPLE OF COMMANDS USED TO DRIVE ACRUNOFF AND ACRLISTER IS ATTACHED AS APPENDIX /B.

AIPRODUCTION MECHANISM

Document preparation consists of first entering the text and any layout instructions into a NORD file from a normal terminal. RUNOFF is then a UDU or Tektronix terminal until formatted text. This can be read by the RLISTER program which write it on your terminal in a way suitable for that device. used to process the file and produce an output file containing Normally gou will do this on

(asp lower upper 1

in the final stages in order to preserve its daisy wheel and ribbon. mistakes. Finally you may log onto the high quality Diablo printer for a neat copy of your text - both continuous paper and separate sheets may be used. The Diablo should only be used satisfied with the layout and have removed all spelling

·ILAYOUT CONTROL

AG(".") > E at the beginning of a line. A new paragraph is obtained by putting a space at the beginning of a line. The "group" facility new pages, centred text and so on are introduced by a full-stop containing spaces such as in a formula. RUNOFF will not split Basically commands for blank lines, text in upper case only you will required several commands to swop between upper and lower case. The user is referred to the EMBL documents called RUNOFF and is often useful to prevent RUNOFF splitting an item of text complete words up. If you are entering your RUNOFF Beginner's Manual.

This document was produced using both methods and you are recommended to look at the attached input file as an example.

Please note that the Diablo

and Tektronix devices can deal with the neat underline and ... and ... should be used instead of .UL.

d db

~INOTES

. 교 교

the backup system and can be when editing with QED can be a little awkward to handle when editing with QED which expects type <6:5YMB</br>
Which expects type <6:5YMB</br>
Which expects type <6:5YMB</br>
The input text is stored in a <6:5YMB</br> of type AG:RUNF.AE This type of file will not be backed up by EMBL recommend that the input text is stored in a file to add AG18AE to your file specification to RUNOF

SP 1

B(J)RUNOFF

RUNOFF VGMODA 79.02.06 WELCOMES YOU TEXT FILE: JCNOTE41:5
DEFAULT IMBED FILE: DIABLO

Forma Mins

RUNOFF HAS PROCESSED 94 INPUT LINES 0 OUT OF 20000 7.26 seconds seconds AND DEFINED & INDEX ENTRIES STORAGE WORDS USED TIME OUTPUT FILE: OF TIMES RUNOFF EXITS CPU USED ELAPSED

0(J)RLISTER

RUNOFF LISTER VERSION 25-JUN-80 **的作品用银矿和油油物性性物质的物种物物类性的价格等性性机体均衡体**

1*CONSOLE; 2*4014; 3*UDU; 4*DIABLO PLEASE GIVE INPUT FILENAME PLEASE ENTER TERMINAL TYPE

TONE SIGNIFIES END OF PAGE - RETURN TO CONTINUE

Tehtronix in this case output to device

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42 LON COMPUTER JADE

REDTUA **** THE SUBROUTINES REDONE AND

25.08 1980 J.OLSSON

PERFORMANCE OF THE CUTS NORMALLY APPLIED IN THE JADE REDUCT AND REDUCZ STEPS (SEE JADE COMPUTER NOTES 27 AND 43). THESE REDUCTION STEPS ARE STANDABLY PERFORMED IN SEPARATE PROCEAMS AND USE THE FULL JADE SUPERVISOR STRUCTURE. TO SIMULATE FREEDERS STEPS IN THE SELECTION OF EVERTING STRUCTURE. TO SIMULATE THESE STEPS IN THE SELECTION OF EVERTING JOBS AS THEY STAND. PRESENTLY, THESE CUTS ARE OFTEN IMPOSED IN A LOOSE WAX. F. G. BY REQUIRING A MINIMUM TRANSVERS ENDROUTINES REDOME AND USEDUZA AND WERSING OF THE SUBROUTINES REDOME AND USEDUZA AND GAN BE USED OUTSIDE THE SUBRICULURE. AS A STEP IN AN EVENT SELECTING PROGRAM. THIS IS NOT ONLY USEFUL WHEN SELECTING EVENTS FROM A MONTE CARLO SAMPLE, BUT ALSO IF ONE WISHEST TO APPLY THE NEW REDUCT CUTS TO OLDER AND MORE LOOSELY SELECTING SAMPLES. SECONDLY, THE USES ROUTINES ASSURES THE EXACT SIMULATION OF THE REDUCT AND MORE THESE SUBROUTINES HAVE BEEN CREATED IN ORDER TO SIMPLIFY THE

CALLING SEQUENCE FOR R E D O N E:

CALL REDONE (INDRJ, LBWRT, IWRT)

ACCEPT INDEX
REDUC1 WRITE FLAG REJECTION INDEX INDE THE ARGUMENTS:

IWRT

INDRA = 0 IF EVENT IS ACCEPTED, NONZERO FOR REJECT
LBWRT = 0 IF EVENT IS REJECTED, NONZERO FOR ACCEPT
THE VARIOUS REJECT AND ACCEPT CONDITIONS ARE RETURNED IN THE VALUES
OF THESE TWO PARAMETERS. INRT IS THE STANDARD WRITE FLAG IN REDUCI, BEING SET FOR TAGGED EVENTS, HIGH ENERGY EVENTS AND OVERFLOW EVENTS.

OBS.. THE SUBROUTINE REDONE CAN ONLY BE CALLED WHEN PATTERN

RECOGNITION HAS BEEN PERFORMED.

REDONE IS A SHELFRAN SUBROUTINE, LIKE THE SUBROUTINE USREDUCL. IT HAS A BLOCK DATA ATTACHED:

COMMON /CREDON/LIMHIT, LIMHT1, CRVTAG, CRVNTG COMMON /CIPRI/IPRI BLOCK DATA

DATA IPRI /0/ DATA LIMHIT/12/, LIMHT1/20/ DATA CRVTAG/.00150/, CRVNTG/.00025/

THE VARIABLE IPRI IS A PRINT VARIABLE. IF IPRI > 0, A PRINTED LINE IS PRODUCED FOR EACH CALL, TELLING THE REASON FOR THE REJECT OR

CALLING SEQUENCE FOR R E D T V A:

CALL REDIVA(LBWRI, INDRJ, IWRI, IFIG, IAC, IFLW, IPRO)

ACCEPT INDEX
REDUCZ WRITE FLAG REJECTION INDEX INDRJ LBWRT IWRT THE ARGUMENTS:

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Page 1

Page 2

IFTG, IAC, IFLW ARE FLAGS FOR SETTING IWRT, SEE JADE COMPUTER NOTE 43.

PRINT VARIABLE

INDRJ = 0 IF EVENT IS ACCEPTED, NONZERO FOR REJECT LBWRT = 0 IF EVENT IS REJECTED, NONZERO FOR ACCEPT THE VARIOUS REJECT AND ACCEPT CONDITIONS ARE RETURNED IN THE VALUES PRINT IS PRODUCED FOR EACH CALL, TELLING THE REASON OF THESE TWO PARAMETERS. IF IPRO > 0, PRINT IS PR

FOR REJECT OR ACCEPT.

OBS., THE SUBROUTINE REDTVA CAN ONLY BE CALLED WHEN PATTERN RECOGNITION AND CLUSTER ANALYSIS HAVE BEEN PERFORMED (CORRESPONDING TO LEVEL 6 IN THE SUPERVISOR).

REDTVA IS A FORTRAN SUBROUTINE, LIKE THE SUBROUTINE USREDUC2. IT HAS A BLOCK DATA ATTACHED:

COMMON /CREDIV/ CRVLIM, LMHITS, RELIM, RELIMI, RATLIM, COSCUT, ZVTXLM, S ZVXLMI, ZVXLMZ, FTOTLM, ETOTKE, ETCYKE, ETEIKE, ETEZKE, ZMLIM, FIDEL, \$ XLM, YLM, ZLM, ERGL, ETAGLM, FTOTCT, TSUMC1, TSUMC2 BLOCK DATA

DATA ERGL /.200/

DATA ETAGLM /100./
DATA ETAGLM /100./
DATA ETAGLM /100./
DATA ETAGLM /100./
DATA RELIM /30./
DATA RELIM /30./
DATA RATLIM /30./
DATA RATLIM /350./
DATA ZMLIM /350./
DATA ZMLIM /350./
DATA ZMLIM /350./
DATA ZMM /350./
DATA ZMYZM /350./ DATA RPIIMI/10./
DATA RATLIM / 20/
DATA RIDEL / 200/
DATA ZIM / 350./
DATA ZIM / 350./
DATA ZIM / 350./
DATA ZIM / 350./
DATA ZVXIM / 500./
DATA ETOTRP / 7000./
DATA ETOTRP / 4000./
DATA ETEIRP / 4000./
DATA TSUMCI / 30./

ETOTIM /5000./ /3500./ /7000./

/500./

THE SUBROUTINES REDONE AND REDIVA AND THEIR ASSOCIATED HELPROUTINES ARE FOUND ON THE GENERAL LIBRARIES: F11LHO.JADEGS AND F11LHO.JADEGL