**=======================================================================MERGER**

**MERGER**

**PROGRAM MERGER MERGER**

**============== MERGER**

**VERSION 80-1 (JANUARY 1980) MERGER**

**VERSION 80-2 (DECEMBER 1980) MERGER**

**VERSION 82-1 (JANUARY 1982) MERGER**

**VERSION 83-1 (JANUARY 1983)\*NEW, MORE COMPATIBLE I/O UNIT NUMBERS.MERGER**

**VERSION 85-1 (AUGUST 1985) \*FORTRAN-77/H VERSION MERGER**

**VERSION 86-1 (JANUARY 1986)\*ENDF/B-VI FORMATS MERGER**

**VERSION 88-1 (JULY 1988) \*OPTION...INTERNALLY DEFINE ALL I/O MERGER**

**FILE NAMES (SEE, SUBROUTINES FILIO1 MERGER**

**AND FILIO2 FOR DETAILS). MERGER**

**\*IMPROVED BASED ON USER COMMENTS. MERGER**

**VERSION 89-1 (JANUARY 1989)\*PSYCHOANALYZED BY PROGRAM FREUD TO MERGER**

**INSURE PROGRAM WILL NOT DO ANYTHING MERGER**

**CRAZY. MERGER**

**\*UPDATED TO USE NEW PROGRAM CONVERT MERGER**

**KEYWORDS. MERGER**

**\*ADDED LIVERMORE CIVIC COMPILER MERGER**

**CONVENTIONS. MERGER**

**VERSION 92-1 (JANUARY 1992)\*UPDATED BASED ON USER COMMENTS MERGER**

**\*ADDED FORTRAN SAVE OPTION MERGER**

**VERSION 92-2 (JULY 1992) \*ALLOW UP TO 99 ENDF/B DATA FILES. MERGER**

**(TO ALLOW MANAGEMENT OF THE ENTIRE MERGER**

**ENDF/B SYSTEM). MERGER**

**VERSION 94-1 (JANUARY 1994)\*VARIABLE ENDF/B DATA FILENAMES MERGER**

**TO ALLOW ACCESS TO FILE STRUCTURES MERGER**

**(WARNING - INPUT PARAMETER FORMAT MERGER**

**HAS BEEN CHANGED) MERGER**

**\*ONLY SPECIFY FILENAMES - NO UNIT MERGER**

**NUMBERS ON INPUT (WARNING - INPUT MERGER**

**PARAMETERS FORMAT HAS BEEN CHANGED) MERGER**

**\*CLOSE ALL FILES BEFORE TERMINATING MERGER**

**(SEE, SUBROUTINE ENDIT) MERGER**

**\*REQUEST LOG DELETED MERGER**

**VERSION 96-1 (JANUARY 1996) \*COMPLETE RE-WRITE MERGER**

**\*IMPROVED COMPUTER INDEPENDENCE MERGER**

**\*ALL DOUBLE PRECISION MERGER**

**\*ON SCREEN OUTPUT MERGER**

**\*UNIFORM TREATMENT OF ENDF/B I/O MERGER**

**\*IMPROVED OUTPUT PRECISION MERGER**

**VERSION 99-1 (MARCH 1999) \*GENERAL IMPROVEMENTS BASED ON MERGER**

**USER FEEDBACK MERGER**

**VERS. 2000-1 (FEBRUARY 2000)\*GENERAL IMPROVEMENTS BASED ON MERGER**

**USER FEEDBACK MERGER**

**VERS. 2002-1 (MAY 2002) \*OPTIONAL INPUT PARAMETERS MERGER**

**VERS. 2004-1 (MARCH 2004) \*ADDED INCLUDE TO DEFINE COMMON MERGER**

**\*ADDED TEND LINE IF NO DATA RETRIEVED MERGER**

**VERS. 2007-1 (JAN. 2007) \*CHECKED AGAINST ALL ENDF/B-VII. MERGER**

**VERS. 2007-2 (JUNE 2007) \*UP, TO 1,000 ENDF/B FILES. MERGER**

**\*72 CHARACTER FILE NAMES. MERGER**

**VERS. 2010-1 (Apr. 2010) \*General update based on user feedbackMERGER**

**VERS. 2012-1 (Aug. 2012) \*Added CODENAME MERGER**

**\*32 and 64 bit Compatible MERGER**

**\*Added ERROR stop MERGER**

**VERS. 2015-1 (Jan. 2015) \*Replaced ALL 3 way IF Statements. MERGER**

**VERS. 2017-1 (May 2017) \*Updated based on user feedbck. MERGER**

**VERS. 2018-1 (Jan. 2018) \*Added on-line output for ALL ENDERRORMERGER**

**VERS. 2019-1 (June 2019) \*Identical to 2018-1 MERGER**

**VERS. 2020-1 (Feb. 2020) \*Allow EMPTY files = file exists, but MERGER**

**0 length = EOF at first read try. MERGER**

**VERS. 2021-1 (Apr. 2021) \*Updated for FORTRAN 2018 MERGER**

**\*Updated SEND/FEND/MEND/TEND Sequence MERGER**

**number definition. MERGER**

**MERGER**

**OWNED, MAINTAINED AND DISTRIBUTED BY MERGER**

**------------------------------------ MERGER**

**THE NUCLEAR DATA SECTION MERGER**

**INTERNATIONAL ATOMIC ENERGY AGENCY MERGER**

**P.O. BOX 100 MERGER**

**A-1400, VIENNA, AUSTRIA MERGER**

**EUROPE MERGER**

**MERGER**

**ORIGINALLY WRITTEN BY MERGER**

**------------------------------------ MERGER**

**Dermott E. Cullen MERGER**

**MERGER**

**PRESENT CONTACT INFORMATION MERGER**

**--------------------------- MERGER**

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**MERGER**

**AUTHORS MESSAGE MERGER**

**--------------- MERGER**

**THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENTATION MERGER**

**FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ MERGER**

**ALL OF THESE COMMENTS BEFORE IMPLEMENTATION, PARTICULARLY THE MERGER**

**COMMENTS CONCERNING MACHINE DEPENDENT CODING. MERGER**

**MERGER**

**AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTERMERGER**

**INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE MERGER**

**OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECTMERGER**

**IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY MERGER**

**COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO MERGER**

**IMPROVE THIS PROGRAM. HOPEFULLY, IN THIS WAY FUTURE VERSIONS OF MERGER**

**THIS PROGRAM WILL BE COMPLETELY COMPATIBLE FOR USE ON YOUR MERGER**

**COMPUTER. MERGER**

**MERGER**

**PURPOSE MERGER**

**------- MERGER**

**THIS PROGRAM IS DESIGNED TO SELECTIVELY RETRIEVE DATA OFF OF FROM MERGER**

**1 TO 10 ENDF/B DATA TAPES AND TO MERGE THE SELECTED DATA INTO A MERGER**

**SINGLE MAT/MF/MT ORDERED FINAL OUTPUT FILE. MERGER**

**MERGER**

**IN THE DISCUSSION THAT FOLLOWS FOR SIMPLICITY THE ENDF/B MERGER**

**TERMINOLOGY---ENDF/B TAPE---WILL BE USED. IN FACT THE ACTUAL MERGER**

**MEDIUM USED MAY BE TAPE, CARD, DISK OR ANY OTHER MEDIUM. MERGER**

**MERGER**

**ENDF/B FORMAT MERGER**

**------------- MERGER**

**THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS MERGER**

**OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION MERGER**

**OF THE ENDF/B FORMAT (I.E., ENDF/B-I, II,III, IV OR V FORMAT). MERGER**

**MERGER**

**THE ONLY NUMERICAL DATA THAT THIS PROGRAM READS IS THE ZA FROM THEMERGER**

**FIRST CARD OF EACH SECTION AND THE MAT/MF/MT FROM EACH CARD. MERGER**

**SEQUENCE NUMBERS ARE IGNORED ON INPUT AND ALL OTHER FIELDS ARE MERGER**

**READ AS HOLLERITH. AS SUCH THIS PROGRAM NEED NOT DISTINGUISH MERGER**

**BETWEEN DIFFERENT VERSIONS OF THE ENDF/B FORMAT. MERGER**

**MERGER**

**IT IS ASSUMED THAT THE DATA IS CORRECTLY CODED IN THE ENDF/B MERGER**

**FORMAT AND NO ERROR CHECKING IS PERFORMED. IN PARTICULAR IT IS MERGER**

**ASSUMED THAT THE MAT, MF AND MT ON EACH CARD IS CORRECT. SEQUENCE MERGER**

**NUMBERS (COLUMNS 76-80) ARE IGNORED ON INPUT, BUT WILL BE MERGER**

**CORRECTLY OUTPUT ON ALL CARDS. MERGER**

**MERGER**

**SECTION SIZE MERGER**

**------------ MERGER**

**SINCE THIS PROGRAM ONLY READS THE DATA ONE CARD AT A TIME THERE MERGER**

**IS NO LIMIT TO THE SIZE OF ANY GIVEN SECTION, E.G. THE TOTAL MERGER**

**CROSS SECTION MAY BE DESCRIBED BY 200,000 DATA POINTS. MERGER**

**MERGER**

**SELECTION OF DATA MERGER**

**----------------- MERGER**

**THE USER MAY CHOOSE TO MERGE ALL DATA OR THE USER MAY SPECIFY MERGER**

**THAT ONLY CERTAIN DATA SHOULD BE SELECTED. THE DATA TO BE MERGER**

**SELECTED IS DEFINED BY SPECIFYING UP TO 100 MAT/MF/MT OR MERGER**

**ZA/MF/MT RANGES. EACH RANGE IS DEFINED BY LOWER AND UPPER LIMITS MERGER**

**OF MAT/MF/MT OR ZA/MF/MT. MERGER**

**MERGER**

**REQUEST LIMITS MERGER**

**-------------- MERGER**

**IN ORDER TO SIMPLIFY THE INPUT OF SELECTION REQUESTS THE FOLLOWINGMERGER**

**CONVENTIONS HAVE BEEN INTRODUCED IN ORDER TO DEFINE THE UPPER MERGER**

**LIMITS OF REQUESTS IF THEY ARE NOT DEFINED BY INPUT (I.E., IF THEYMERGER**

**ARE ZERO). MERGER**

**MERGER**

**(1) MAT OR ZA - IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE MERGER**

**LOWER LIMIT. MERGER**

**(2) MF OR MT - IF THE UPPER LIMIT IS ZERO IT IS SET EQUAL TO THE MERGER**

**MAXIMUM POSSIBLE VALUE, 99 OR 999 RESPECTIVELY. MERGER**

**MERGER**

**WITH THESE CONVENTIONS AN ENTIRE EVALUATION MAY BE SELECTED BY MERGER**

**MERELY SPECIFYING THE LOWER LIMIT OF MAT OR ZA. THE UPPER MAT OR MERGER**

**ZA LIMIT WILL BE SET EQUAL TO THE LOWER LIMIT, THE LOWER LIMITS OFMERGER**

**MF/MT WILL BE 0/0 AND THE UPPER LIMITS OF MF/MT WILL BE SET TO MERGER**

**99/999. THIS WILL CAUSE ALL SECTIONS OF A SINGLE EVALUATION TO BE MERGER**

**SELECTED. MERGER**

**MERGER**

**SATISFYING SELECTION CRITERIA MERGER**

**----------------------------- MERGER**

**IN ORDER FOR A SECTION TO MEET THE SELECTION CRITERIA SPECIFIED MERGER**

**BY ONE OF THE RETRIEVAL REQUESTS, EACH OF THE THREE FIELDS ( MERGER**

**MAT/MF/MT OR ZA/MF/MT) MUST INDIVIDUALLY SATISFY THE CORRESPONDINGMERGER**

**LIMITS OF THE REQUEST. IT IS NOT SUFFICIENT THAT THE MAT OF A MERGER**

**SECTION LIE BETWEEN THE MINIMUM AND MAXIMUM MATS OF A REQUEST. THEMERGER**

**MF AND MT WILL ALSO BE INDIVIDUALLY COMPARED TO THE MF AND MT MERGER**

**LIMITS OF THE REQUEST. FOR EXAMPLE, A SECTION WITH MAT/MF/MT= MERGER**

**2500/3/2 DOES NOT SATISFY A REQUEST THAT SPECIFIES A REQUEST USINGMERGER**

**THE RANGE 2000/3/1 THROUGH 3000/3/1. THIS REQUEST SPECIFIES ALL MERGER**

**MATERIALS WITH MAT BETWEEN 2000 AND 3000, BUT ONLY THOSE SECTIONS MERGER**

**WITH MF/MT=3/1. SIMILARLY A REQUEST FOR 2000/3/1 THROUGH 3000/99/ MERGER**

**999 WILL NOT SELECT ANY SECTIONS WITH MF=1 OR 2, SINCE THE MERGER**

**REQUEST SPECIFIES ALL MATERIALS WITH MAT BETWEEN 2000 AND 3000, MERGER**

**BUT ONLY THOSE SECTIONS WITH MF= 3, OR MORE. MERGER**

**MERGER**

**DUPLICATE SECTIONS MERGER**

**------------------ MERGER**

**IF TWO OR MORE SECTIONS WITH THE SAME MAT/MF/MT ARE FOUND EITHER MERGER**

**ON THE SAME OR DIFFERENT TAPES, THE SECTION FROM THE TAPE DEFINED MERGER**

**EARLIEST IN THE INPUT CARDS WILL BE COPIED TO THE FINAL TAPE AND MERGER**

**ALL OTHER SECTIONS WITH THE SAME MAT/MF/MT WILL BE SKIPPED. THE MERGER**

**OUTPUT REPORT WILL INDICATE WHICH SECTIONS WERE COPIED FROM WHICH MERGER**

**TAPES, AS WELL AS WHICH SECTIONS ARE DUPLICATE AND WERE SKIPPED. MERGER**

**MERGER**

**REACTION INDEX MERGER**

**-------------- MERGER**

**THIS PROGRAM DOES NOT UPDATE THE REACTION INDEX IN MF=1, MT=451. MERGER**

**FOR EACH MATERIAL THE PROGRAM WILL FOLLOW THE CONVENTIONS MERGER**

**DEFINED ABOVE AND ONLY COPY ONE SECTION MF=1, MT=451 AND SKIP MERGER**

**ALL OTHERS (IF MORE THAN ONE). THIS CONVENTION HAS BEEN ADOPTED MERGER**

**BECAUSE MOST USERS DO NOT REQUIRE A CORRECT REACTION INDEX FOR MERGER**

**THERE APPLICATIONS AND IT WAS NOT CONSIDERED WORTHWHILE TO INCLUDEMERGER**

**THE OVERHEAD OF CONSTRUCTING A CORRECT REACTION INDEX IN THIS MERGER**

**PROGRAM. HOWEVER, IF YOU REQUIRE A REACTION INDEX FOR YOUR MERGER**

**APPLICATION AFTER RUNNING THIS PROGRAM YOU MAY USE PROGRAM MERGER**

**DICTIN TO CREATE ONE. MERGER**

**MERGER**

**RETRIEVAL STATISTICS MERGER**

**-------------------- MERGER**

**THERE WILL ALWAYS BE AN OUTPUT REPORT LISTING INDICATING WHICH MERGER**

**SECTIONS WHERE SELECTED, WHICH DUPLICATE SECTIONS WERE SKIPPED, MERGER**

**WHICH TAPE THE SECTION WAS ON, WHICH REQUEST (MAT/MF/MT OR MERGER**

**ZA/MF/MT RANGE) CAUSED THE SECTION TO BE SELECTED AND HOW MANY MERGER**

**CARDS WERE IN THE SECTION. IN ADDITION THE USER MAY OPTIONALLY MERGER**

**OBTAIN A FILE CONTAINING THE SAME INFORMATION. THIS FILE MAY BE MERGER**

**COMBINED WITH OTHER SIMILAR FILES OUTPUT BY THIS PROGRAM IN ORDER MERGER**

**TO ACCUMULATE RETRIEVAL STATISTICS OVER A PERIOD OF TIME. IF MERGER**

**SPECIFIED THIS FILE WILL CONTAIN THE FOLLOWING INFORMATION IN MERGER**

**6I7 FORMAT. MERGER**

**MERGER**

**(1) ZA MERGER**

**(2) MAT MERGER**

**(3) MF MERGER**

**(4) MT MERGER**

**(5) NUMBER OF CARDS IN SECTION MERGER**

**(6) REQUEST NUMBER THAT CAUSED SECTION TO BE SELECTED MERGER**

**MERGER**

**INPUT FILES MERGER**

**----------- MERGER**

**UNIT DESCRIPTION MERGER**

**---- ----------- MERGER**

**2 INPUT CARDS (BCD - 80 CHARACTERS/RECORD) MERGER**

**VARY FROM 1 TO 99 ENDF/B DATA FILES (BCD - 80 CHARACTERS/RECORD) MERGER**

**MERGER**

**OUTPUT FILES MERGER**

**------------ MERGER**

**UNIT DESCRIPTION MERGER**

**---- ----------- MERGER**

**3 OUTPUT REPORT LISTING (BCD - 120 CHARACTERS/RECORD) MERGER**

**10 MERGED ENDF/B DATA (BCD - 80 CHARACTERS/RECORD) MERGER**

**MERGER**

**OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINES FILIO1 AND FILIO2) MERGER**

**---------------------------------------------------------------- MERGER**

**UNIT FILE NAME DESCRIPTION MERGER**

**---- ---------- ----------- MERGER**

**2 MERGER.INP INPUT PARAMETERS MERGER**

**3 MERGER.LST OUTPUT LISTING MERGER**

**11 ENDFB.OUT RETRIEVED ENDF/B DATA MERGER**

**12 ENDFB.IN1 ENDF/B DATA TO READ...FILENAMES WILL BE DEFINED MERGER**

**13 ENDFB.IN2 IN THE ORDER ENDFB.IN1, ENDFB.IN2,...ENDFB.I99 MERGER**

**14 ENDFB.IN3 CORRESPONDING TO THE FIRST, SECOND,...99-TH MERGER**

**15 ENDFB.IN4 ENDF/B DATA FILE TO READ. MERGER**

**16 ENDFB.IN5 MERGER**

**17 ENDFB.IN6 MERGER**

**18 ENDFB.IN7 MERGER**

**. MERGER**

**. MERGER**

**110 ENDFB.I99 MERGER**

**MERGER**

**INPUT CARDS MERGER**

**----------- MERGER**

**CARD COLUMNS FORMAT DESCRIPTION MERGER**

**---- ------- ------ ----------- MERGER**

**1 1-72 A72 FILENAME FOR MERGED OUTPUT. MERGER**

**(LEAVE BLANK FOR STANDARD = ENDFB.OUT) MERGER**

**2 1-66 16A4,A2 MERGED FILE LABEL MERGER**

**IF BLANK - LABEL FROM FIRST FILE READ WILLMERGER**

**BE OUTPUT MERGER**

**67-70 I4 MERGED FILE ENDF/B NUMBER MERGER**

**IF ZERO - NUMBER OF FIRST FILE READ WILL MERGER**

**BE OUTPUT. MERGER**

**71-72 I2 RETRIEVAL CRITERIA MERGER**

**= 0 - MAT/MF/MT RANGES MERGER**

**= 1 - ZA/MF/MT RANGES MERGER**

**3-N 1-72 A72 FILENAME FOR FILE TO RETRIEVE DATA FROM MERGER**

**(LEAVE BLANK FOR STANDARD..ENDFB.IN1,ETC.)MERGER**

**TERMINATE LIST OF FILES WITH A LINE THAT MERGER**

**SAYS END OR end MERGER**

**VARY 1- 6 I6 LOWER PRIMARY LIMIT (MAT OR ZA) MERGER**

**7- 8 I2 LOWER MF LIMIT MERGER**

**9-11 I3 LOWER MT LIMIT MERGER**

**12-17 I6 UPPER PRIMARY LIMIT (MAT OR ZA) MERGER**

**18-19 I2 UPPER MF LIMIT MERGER**

**20-22 I3 UPPER MT LIMIT MERGER**

**RANGES OF MAT/MF/MT OR ZA/MF/MT TO BE MERGER**

**RETRIEVED ARE SPECIFIED BY DEFINING MERGER**

**ONE RANGE (LOWER AND UPPER LIMITS) PER MERGER**

**CARD. THE USER MAY SPECIFY 0 TO 100 MERGER**

**RANGES AND THE LIST OF REQUEST RANGES MERGER**

**IS TERMINATED BY A BLANK CARD. IF MERGER**

**THE FIRST CARD IS BLANK (0 REQUESTS) MERGER**

**ALL DATA WILL BE RETRIEVED. IF THE UPPER MERGER**

**PRIMARY CRITERIA (MAT OR ZA) IS LESS THAN MERGER**

**THE LOWER PRIMARY CRITERIA, THE UPPER MERGER**

**PRIMARY CRITERIA WILL BE SET EQUAL TO MERGER**

**THE LOWER PRIMARY CRITERIA. IF THE UPPER MERGER**

**MF OR MT LIMIT IS ZERO, OR BLANK, IT MERGER**

**WILL BE SET TO THE MAXIMUM POSSIBLE MERGER**

**VALUE, I.E. MF=99 OR MT=999 (SEE MERGER**

**EXAMPLE INPUT). MERGER**

**MERGER**

**EXAMPLE INPUT NO. 1 MERGER**

**------------------- MERGER**

**MERGE ENDF/B DATA ONTO UNIT 10 FROM UNITS 11, 12, 13 AND 14. MERGER**

**RETRIEVE DATA BY MAT NUMBER. RETRIEVE MATS 1103, 1106, ALL MATS MERGER**

**BETWEEN 1204 AND 1215, MF=1, 3, 4 AND 5 OF MAT 1219 AND MF=3, MERGER**

**MT=1 OF MAT 1304. USE STANDARD FILENAMES. MERGER**

**MERGER**

**THE FOLLOWING 13 INPUT CARDS ARE REQUIRED. MERGER**

**MERGER**

**ENDFB.OUT MERGER**

**EXAMPLE FILE LABEL FOR MERGER 0 0MERGER**

**ENDFB.IN1 MERGER**

**ENDFB.IN2 MERGER**

**ENDFB.IN3 MERGER**

**ENDFB.IN4 MERGER**

**END MERGER**

**1103 4317 (UPPER LIMIT SET TO 1103/99/999)MERGER**

**1106 4317 (UPPER LIMIT SET TO 1106/99/999)MERGER**

**1204 1215 4317 (UPPER LIMIT SET TO 1215/99/999)MERGER**

**1219 1 1219 1 4317 (UPPER LIMIT SET TO 1219/ 1/999)MERGER**

**1219 3 1219 5 4317 (UPPER LIMIT SET TO 1219/ 5/999)MERGER**

**1304 3 1 1304 3 1 4317 (UPPER LIMIT COMPLETELY DEFINED)MERGER**

**(BLANK CARD TERMINATES REQUESTS)MERGER**

**MERGER**

**EXAMPLE INPUT NO. 2 MERGER**

**------------------- MERGER**

**THE SAME AS EXAMPLE 1, EXCEPT SPECIFY FILENAMES MERGER**

**MERGER**

**\ENDFB6\MERGED.LIB MERGER**

**EXAMPLE FILE LABEL FOR MERGER 0 0MERGER**

**ENDFB6.PART1 MERGER**

**ENDFB6.PART2 MERGER**

**ENDFB6.PART3 MERGER**

**ENDFB6.PART4 MERGER**

**END MERGER**

**1103 4317 (UPPER LIMIT SET TO 1103/99/999)MERGER**

**1106 4317 (UPPER LIMIT SET TO 1106/99/999)MERGER**

**1204 1215 4317 (UPPER LIMIT SET TO 1215/99/999)MERGER**

**1219 1 1219 1 4317 (UPPER LIMIT SET TO 1219/ 1/999)MERGER**

**1219 3 1219 5 4317 (UPPER LIMIT SET TO 1219/ 5/999)MERGER**

**1304 3 1 1304 3 1 4317 (UPPER LIMIT COMPLETELY DEFINED)MERGER**

**(BLANK CARD TERMINATES REQUESTS)MERGER**

**MERGER**

**=======================================================================MERGER**