JADE Computer Note No. 11

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17.11.1978

Use of BOS-Banks Generating Subroutine Package in the First Stage Data Reduction Program.

- In order to avoid the disadvantages of the standard set of 'BOS' subroutines (14 K-storage and additional time consumption) a special subroutine package is available on the library 'F11PRC,JADEGL' (1.5 K-storage). This subroutine generates selected 'BOS-banks' and sets the appropriate pointers in the 'HEAD'-bank.

- The input and output data are stored in the COMMON/CDATA/LENRCD, IDATA (5000).
  LENRCD = record length
  IDATA(1) = start of the 'HEAD'-bank.

- Initialization must be done once by the CALL JBCRX(NWMAX).
  NWMAX = length of array IDATA

- Creation of a bank can be done by the CALL JBCRE (IND,NA,NR,NW,IER):
  NA = name of the bank
  NR = number of the bank NA
  NW = length of the bank (in 4 byte words)
  IND = pointer to first data word -1

  (this is the same calling sequence and convention as within the BOS-system)

  IER = error return code
  = 0 if bank has been created
  = 1 if bank with same name existing
  = 2 if not enough space available
  = 3 if name of the bank is unknown to the program

- Up to now only the following bank names are allowed and can be created with corresponding pointers in 'HEAD'

name:	pointer:	contents of bank:
JHTL	IDATA(69)	hit label array as defined in JADE Computer Note 5
PATR	IDATA(70)	results from pattern recognition
ZVTX	IDATA(71)	" " ZVERTF program
LGCL	IDATA(72)	" " lead glass programs
MUR1	IDATA(73)	results from μ-chamber programs
MUR2	IDATA(74)	

- In addition the following calls might be useful.
  CALL JBCR0 (IND,NA,NR,NW,IER): creation of a bank that is initialized to zero
  CALL JBCRA (IND,NA,NR,NW,IER,AR(1)): creation of a bank that is filled with the data array starting at AR(1)